



Estudi comparatiu de la publicació científica de la UPC i l'ETSETB vs. altres universitats (2006-2016)

Barcelona, 2017



**UNIVERSITAT POLITÈCNICA
DE CATALUNYA
BARCELONATECH**

**Biblioteca Rector Gabriel Ferraté
Escola Tècnica Superior d'Enginyeria de
Telecomunicació de Barcelona**

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Estudi comparatiu de la publicació científica de la UPC i de l'ETSETB vs. altres universitats (2006-2016)

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1. Introducció [\(sumari\)](#)

Objectiu i continuïtat

El present document dona continuïtat a l'*Estudi comparatiu de la publicació científica de la UPC i l'ETSETB vs. altres universitats d'àmbit europeu (1997-2007)* que va ser donat a conèixer l'any 2008, i a la segona i tercera edició d'aquest estudi que es van publicar als anys 2011 i 2014 respectivament.

La voluntat de l'Escola Tècnica Superior d'Enginyeria de Telecomunicació de Barcelona (ETSETB) i de la seva biblioteca, la Biblioteca Rector Gabriel Ferraté (BRGF), és:

- conèixer i analitzar els indicadors relatius a la publicació científico-tècnica del PDI vinculat a l'ETSETB i a la UPC
- situar, partint d'aquests indicadors, la posició de l'ETSETB i la UPC en un context de recerca competitiu a nivell estatal, europeu i internacional.
- identificar les revistes on publiquen més habitualment els investigadors dels àmbits de les telecomunicacions i l'electrònica
- assignar matèries diferents a les usades per ISI-Thomson i més habituals en l'entorn de l'ETSETB a les revistes de més interès per a l'Escola per identificar la dinàmica de publicació a la UPC i a l'Escola en les revistes destacades per l'ETSETB

El present estudi mostra així mateix, com els estudis bibliomètrics poden aportar dades d'utilitat per a la valorització i la visibilitat dels resultats de la recerca i poden constituir-se en eina d'anàlisi en la gestió de l'activitat acadèmica.

Igualment, es mostren les possibilitats que ofereix l'explotació avançada dels recursos d'informació documentals accessibles a través de les biblioteques UPC.

Sense que això disminueixi el seu valor, cal destacar que, ateses les pròpies característiques de les bases de dades utilitzades, aquest tipus d'estudis són per definició susceptibles de rebre interpretacions molt diverses quan s'entra en l'anàlisi excessivament detallada.

D'altra banda, cal tenir present, que dins l'àmbit de les telecomunicacions i l'electrònica les dinàmiques de publicació i les pautes de citació no són totalment homogènies, i es poden identificar especificitats puntuals en determinats camps de recerca.

Pel últim, els criteris usats han estat els més objectius i uniformitzadors possible però, cal tenir en compte que els resultats indiquen només tendències, indicadors comparatius i distints pesos de les institucions en el camp de la recerca en telecomunicacions i electrònica. No es pretèn doncs arribar a interpretacions unívokes ni al principi de que els resultats obtinguts són els únics possibles.

L'estructura de l'informe contempla:

- l'abast temàtic, geogràfic, cronològic i documental
- les fonts d'informació emprades
- la metodologia que s'ha utilitzat
- l'enunciat de dades bàsiques de les universitats analitzades
- l'anàlisi de dades *quantitatives* per institució i conjuntament
- l'anàlisi de dades *qualitatives*: quantitat de citacions rebudes per institució i conjuntament, mitjana de cites per article i índex H
- autors/articles més citats per a cada universitat
- revistes més recurrents a l'hora de publicar cada universitat i conjuntament
- indexació *ad hoc* de revistes seleccionades i anàlisi bàsica de les dinàmiques de publicació internes a la UPC en aquestes revistes
- conclusions

Abast de l'estudi

1. Abast temàtic

L'informe es centra en la publicació científica especialitzada en l'àmbit temàtic propi de l'ETSETB: l'enginyeria de telecomunicacions i l'electrònica.

2. Abast geogràfic

Es comparen indicadors bibliomètrics de la UPC i l'ETSETB, amb els d'altres universitats internacionals, europees i nacionals amb activitat de recerca notable en l'àrea de les telecomunicacions i l'electrònica.

En total s'analitzen 24 institucions: 4 estatounidenques, 5 asiàtiques i 15 europees de les quals 3 pertanyen a l'estat espanyol: UPV, UPM, UPC (inclosa l' ETSETB).

- AALTO - Aalto University
- Berkeley - University of California Berkeley
- EPFL - Ecole Polytechnique Fédéral de Lausanne
- ETHZ - ETH Zürich
- GeorgiaTech - Georgia Institute of Technology
- ICL - Imperial College London
- KAIST - Korea Advanced Institute of Science Technology
- KTH - Royal Institute of Technology
- KULeuven - Katholieke Universiteit Leuven
- MIT- Massachusetts Institute of Technology
- NTU - National Taiwan University
- NTU - Nanyang Technological University
- NUS -National University of Singapore
- POLITO - Politecnico di Torino
- Standford - Stanford University
- TCD - Trinity College Dublin
- TH - Tsinghua University
- TUDelft - Delft University of Technology
- TUM - Technische Univ. Munchen
- UCLouvain - Université Catholique de Louvain
- UPC – Universitat Politècnica de Catalunya (i ETSETB)
- UPM - Universidad Politécnica de Madrid
- UPMC - Pierre Marie Curie University Paris 6
- UPV - Universitat Politècnica de València

En l'estudi actual s'han fet una sèrie de canvis respecte les institucions que apareixien en edicions anteriors. Seguint el criteri de l'ETSETB, s'afegeixen per primer cop les següents deu institucions internacionals:

- TUDelft - Delft University of Technology
- GeorgiaTech - Georgia Institute of Technology
- KAIST- Korea Advanced Institute of Science Technology
- MIT - Massachusetts Institute of Technology
- NTU - National Taiwan University
- NTU - Nanyang Technological University
- NUS - National University of Singapore

- Stanford - Stanford University
- TH - Tsinghua University
- Berkeley - University of California Berkeley
- UPMC - Pierre Marie Curie University (Paris 6)

Per altra banda, respecte a edicions anteriors, han sortit de la comparativa les cinc universitats següents:

- GIT - Grenoble Institute of Technology
- IST - Instituto Superior Tecnico, Lisboa
- TUD - Technische Universität Darmstadt
- TUE - Eindhoven University of Technology
- KIT - Karlsruhe Institute of Technology

Aquesta selecció ha estat definida en funció de la voluntat de l'ETSETB de comparar-se amb institucions de primera línia a nivell estatal, continental i internacional.

3. Abast documental

Des del punt de vista de la tipologia documental, només s'ha treballat amb informació referent a articles publicats a revistes, deixant de banda comunicacions a congressos o altres tipologies pròpies de la publicació científica.

4. Abast cronològic

Les referències analitzades corresponen a articles publicats entre l'1 de gener de 2006 i el 31 de desembre de 2016.

Fonts d'informació

Les dades a partir de les quals s'ha elaborat l'estudi s'han extret de les bases de dades de Thomson-ISI: *Web of Science* (WoS), i *Journal Citation Reports* (JCR), ambdues abastament usades com a eina d'anàlisi bibliomètrica dins del món acadèmic i científic.

Per a la definició en aquest informe del terme *enginyeria de telecomunicacions* s'ha partit de la definició que la versió anglesa de *wikipedia* - http://en.wikipedia.org/wiki/Main_Page- ofereix per a *electrical engineering*.

Per a la traducció de termes de l'anglès al català, sempre que ha estat possible, s'ha usat: *Diccionari de telecomunicacions* / Universitat Politècnica de Catalunya, Termcat Centre de Terminologia, Enciclopèdia Catalana ; direcció tècnica Rosa Mateu Martínez ; coordinador general Ignasi Corbella Sanahuja. – 1a. Ed. - Barcelona : Enciclopèdia Catalana, 2007

Metodologia

1. Recuperació dels articles publicats per autors de cada universitat

Una de les principals dificultats en l'elaboració d'estudis bibliomètrics prenent com a base WoS és la manca generalitzada de normalització als noms d'autors i institucions. Tot i que un altre producte d'ISI, *Essential Science Indicators*, manté un llistat de formes normalitzades de noms d'institucions, les dades que apareixen als registres de les bases de dades Thomson-ISI, són les mateixes que els propis autors i editors van fer constar en l'article, tal i com aquest es va publicar originalment. Com a conseqüència, les institucions sovint apareixen consignades amb diverses variants dels seus noms, circumstància que complica en gran mesura la recuperació exhaustiva d'informació pertinent.

Des de WoS són conscients d'aquesta dificultat i per resoldre-la han desenvolupat la cerca per "Organitzacions-nom preferit". En l'estudi actual hem utilitzat aquesta opció de cerca ja que inclou les variants més importants dels noms de les institucions que apareixen a l'índex de la base de dades. Al realitzar la cerca utilitzant aquest camp obtenim tots els registres que contenen els noms de preferència de cada universitat i també els registres que incloquin variants d'aquest nom. Això fa que els resultats obtinguts siguin més precisos i exactes.

Mitjançant aquestes cerques els resultats que s'obtenen corresponen a tota la publicació científica de la universitat en qüestió, en el període analitzat (2006-2016). Per centrar aquests resultats en l'àmbit de l'electrònica i les telecomunicacions, s'ha usat la opció *Analyze Results* de WoS tal i com es detalla en el següent apartat.

2. Recuperació dels articles de les especialitats de telecomunicacions i electrònica

Un cop executades les cerques per institucions, els resultats obtinguts s'han limitat a les àrees temàtiques objectes de l'estudi.

Per a l'elaboració del present informe, s'ha realitzat la cerca per institucions i després s'ha afinat als resultats seleccionant els articles indexats per WoS sota les següents cinc categories:

- *Engineering, Electrical and Electronic*
- *Instruments & Instrumentation*
- *Nanoscience & Nanotechnology*
- *Remote Sensing*
- *Telecommunications*

Paral·lelament s'han realitzat una sèrie d'anàlisis basats en un subconjunt d'aquestes revistes i d'altres que han estat les que l'ETSETB ha considerat com les més significatives des del punt de vista dels seus interessos acadèmics i especialment en recerca. Els resultats d'aquest treball ocupen tot l'apartat 6 de l'informe.

3. Recuperació dels articles publicats per autors vinculats a l'ETSETB

Un cop recuperats els articles dels autors UPC, l'obtenció dels articles amb professors vinculats a l'ETSETB s'ha realitzat combinant aquesta cerca amb una altra que ha inclòs la forma normalitzada del nom dels autors vinculats a l'ETSETB, a partir d'un llistat de noms facilitat per la pròpia escola. L'aplicació d'aquest filtre ha estat especialment cuidada perquè no representi la pèrdua d'informació respecte a cap de les institucions analitzades,

Cal remarcar que la manca de normalització en els noms dels autors pot haver exclòs de l'equació de cerca formes alternatives, no indexades per WoS.

4. Anàlisi de citacions rebudes

Les citacions rebudes constitueixen un indicador usat de forma comuna tant als estudis bibliomètrics com en la mesura de l'impacte de l'activitat de recerca.

Les dades s'han extret directament de WoS, fent servir la utilitat *Analyze Results*, que permet elaborar rànquings dels autors amb més quantitat de publicació, títols de revista on més es publica, etc., i la utilitat *Citation Report*, que genera un recompte de citacions en dos gràfics: un per a la quantitat d'articles publicats per any, i un per al nombre de vegades que aquests articles han estat citats.

Al costat de les dades corresponents al nombre de citacions rebudes per cada institució, s'hi inclou l'índex H de tot el conjunt d'articles publicats durant el període estudiat.

5. Articles més citats de cada universitat i revistes on més publiquen

Les dades recollides en aquests dos apartats han estat extretes de WoS, a través de la utilitat *Analyze Results*.

2. Dades i gràfics d'articles publicats [\(sumari\)](#)

Es recull a continuació el nombre d'articles publicats per cada institució entre 2006 i 2016, en total i any a any, així com un gràfic comparatiu d'aquesta dada a nivell de totes les institucions.

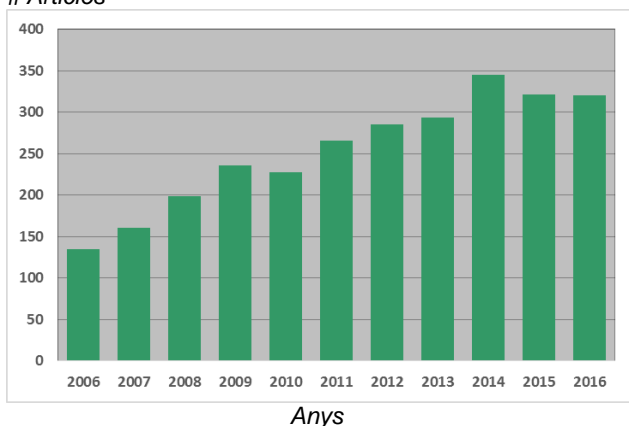
S'acaba amb la comparació d'àmbit estatal UPC vs. UPM i UPV.

2.1. Gràfics i dades d'articles publicats per universitats¹

2.1.1. UPC - Universitat Politècnica de Catalunya

Total d'articles publicats: **2.790**

Articles

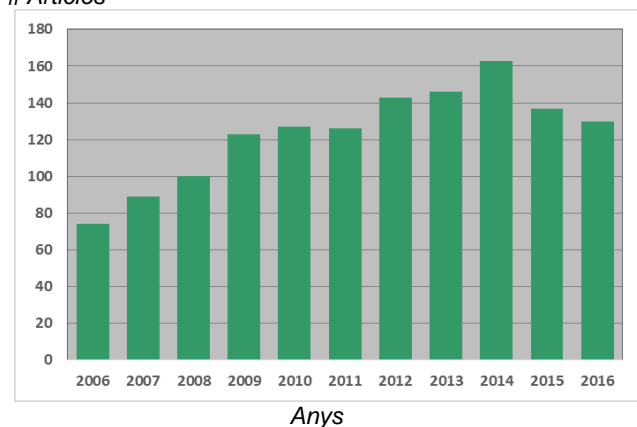


Any	# Items
2006	135
2007	161
2008	199
2009	236
2010	228
2011	266
2012	285
2013	294
2014	345
2015	321
2016	320
Total	2.790

2.1.1.1. ETSETB – Escola Tècnica Superior d'Enginyeria de Telecomunicació de Barcelona

Total d'articles publicats: **1.358**

Articles



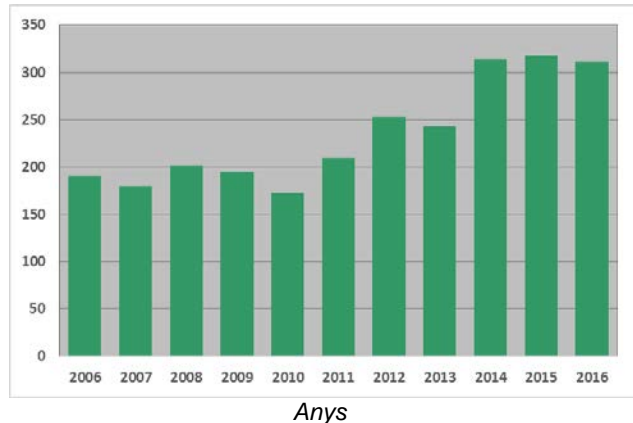
Any	# Items
2006	74
2007	89
2008	100
2009	123
2010	127
2011	126
2012	143
2013	146
2014	163
2015	137
2016	130
Total	1.358

¹ BBDD consultades el 18 d'octubre de 2017

2.1.2. AALTO - Aalto University

Total d'articles publicats: **2.584**

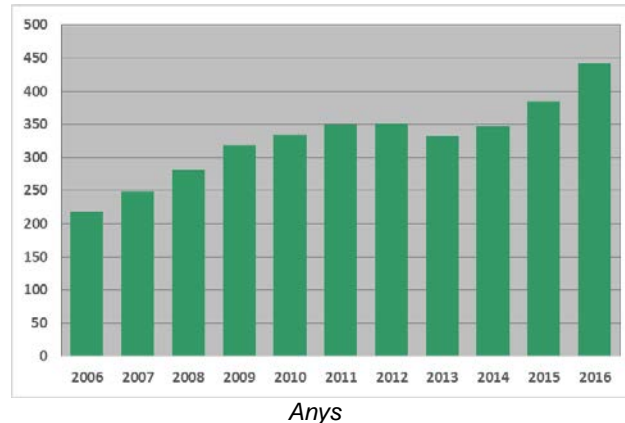
Articles



2.1.3. TUDelft - Delft University of Technology

Total d'articles publicats: **3.608**

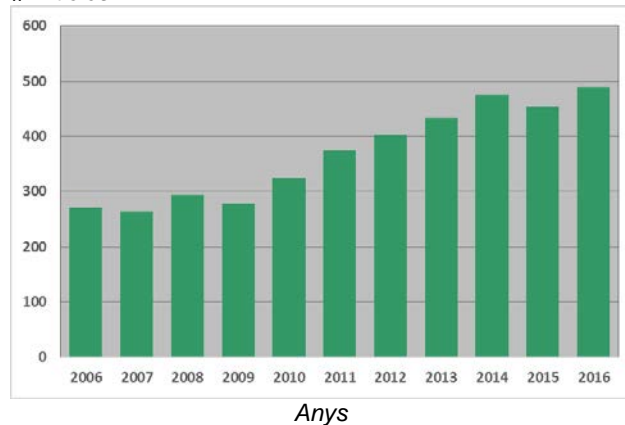
Articles



2.1.4. EPFL - Ecole Polytechnique Fédéral de Lausanne

Total d'articles publicats: **4.059**

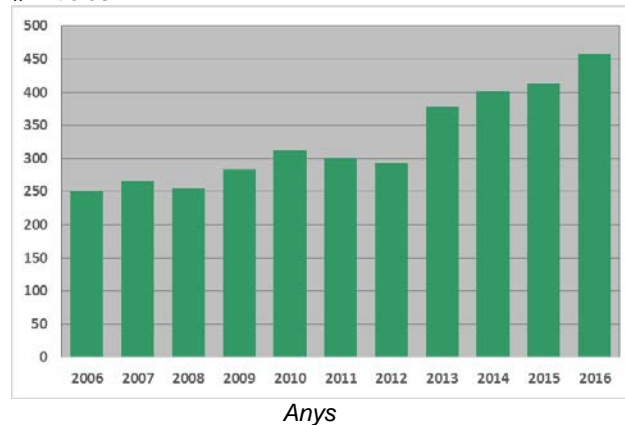
Articles



2.1.5. ETHZ – ETH Zürich

Total d'articles publicats: **3.609**

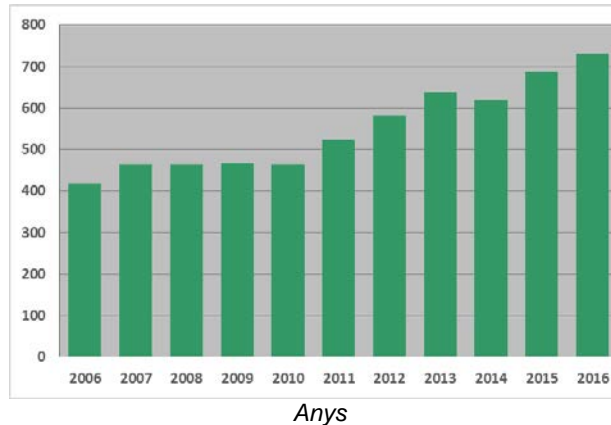
Articles



2.1.6. GeorgiaTech - Georgia Institute of Technology

Total d'articles publicats: **6.061**

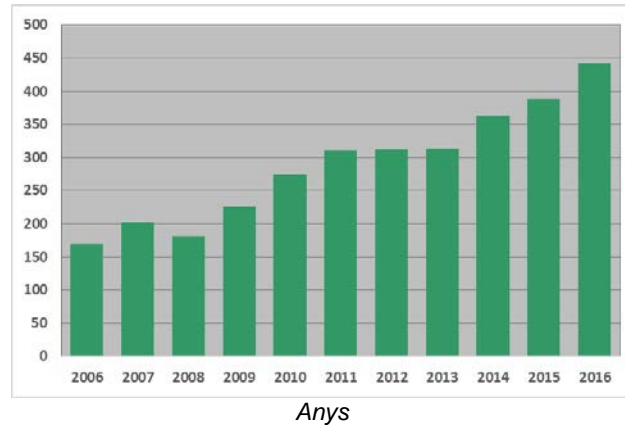
Articles



2.1.7. ICL - Imperial College London

Total d'articles publicats: **3.180**

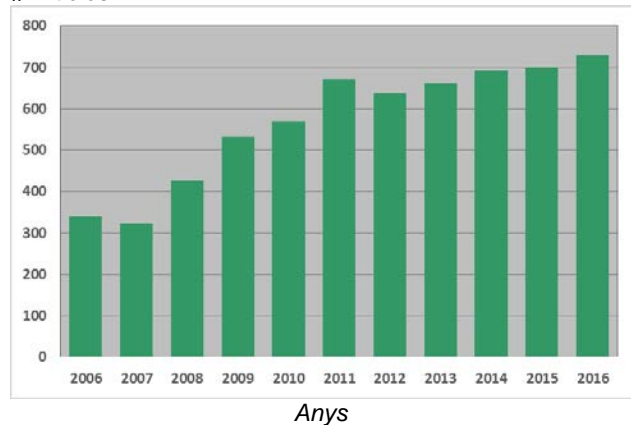
Articles



2.1.8. KAIST - Korea Advanced Institute of Science Technology

Total d'articles publicats: **6.286**

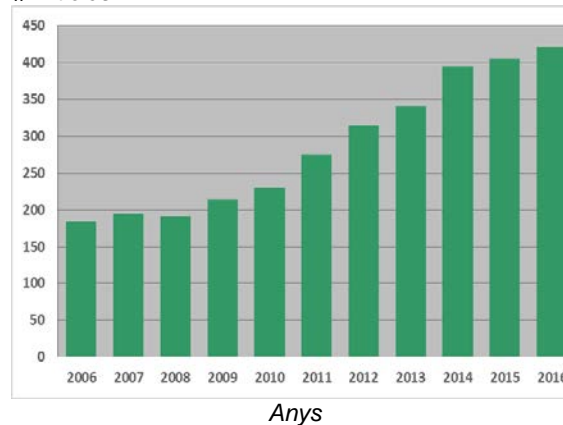
Articles



2.1.9. KTH - Royal Institute of Technology

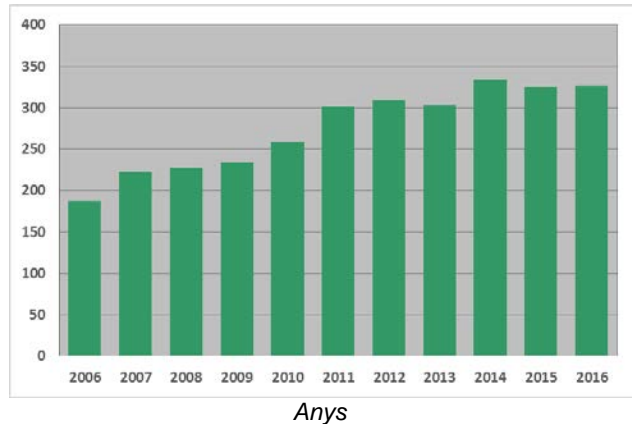
Total d'articles publicats: **3.166**

Articles

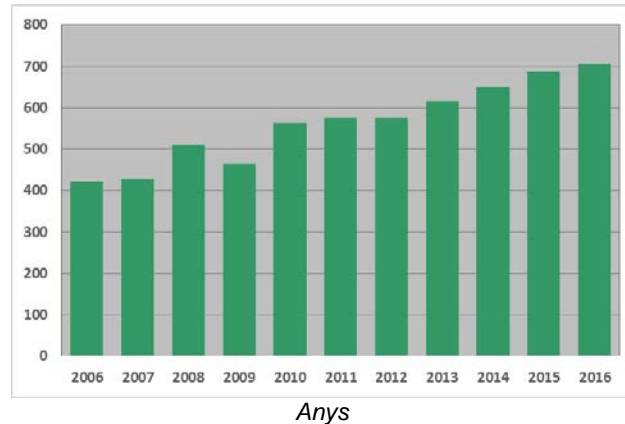


2.1.10. KULeuven - Katholieke Universiteit LeuvenTotal d'articles publicats: **3.029**

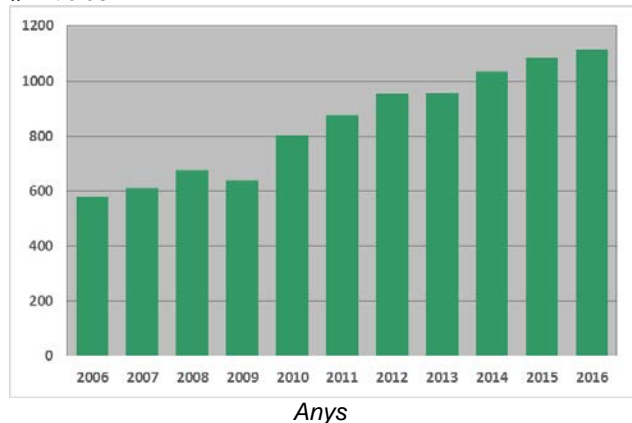
Articles

**2.1.11. MIT - Massachusetts Institute of Technology**Total d'articles publicats: **6.199**

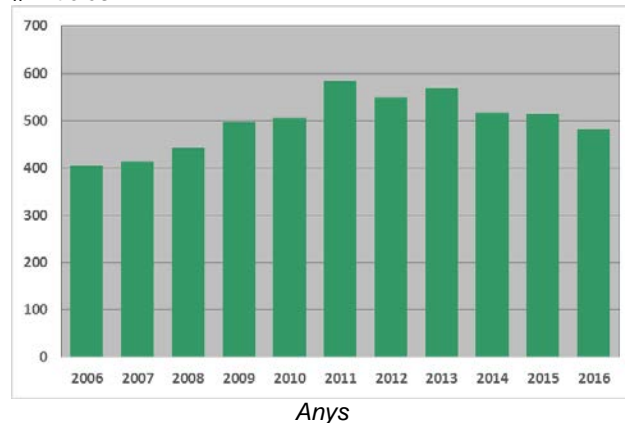
Articles

**2.1.12. NTU Nanyang - Nanyang Technological University**Total d'articles publicats: **9.327**

Articles

**2.1.13. NTU Taiwan - National Taiwan University**Total d'articles publicats: **5.478**

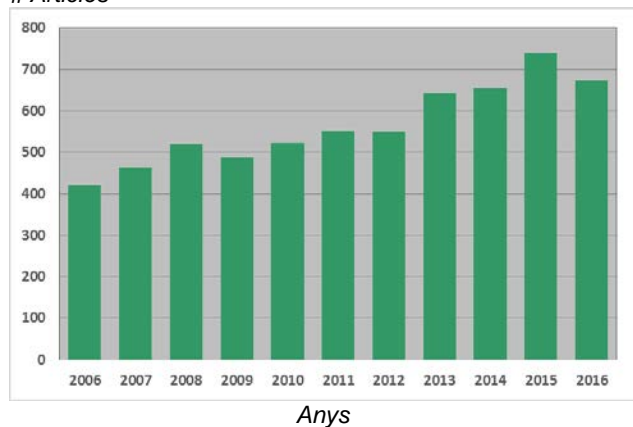
Articles



2.1.14. NUS - National University of Singapore

Total d'articles publicats: **6.222**

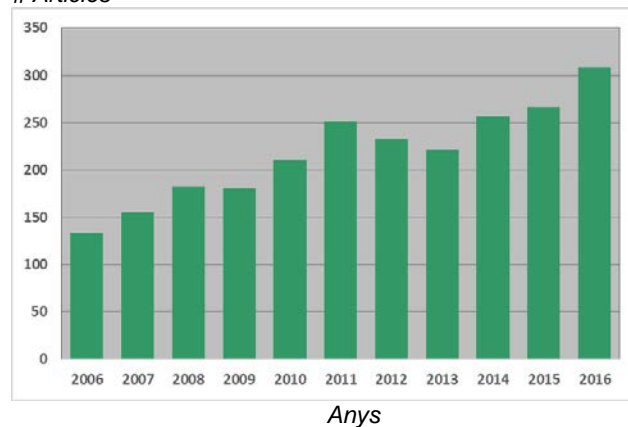
Articles



2.1.15. UPMC - Pierre Marie Curie University Paris 6

Total d'articles publicats: **2.396**

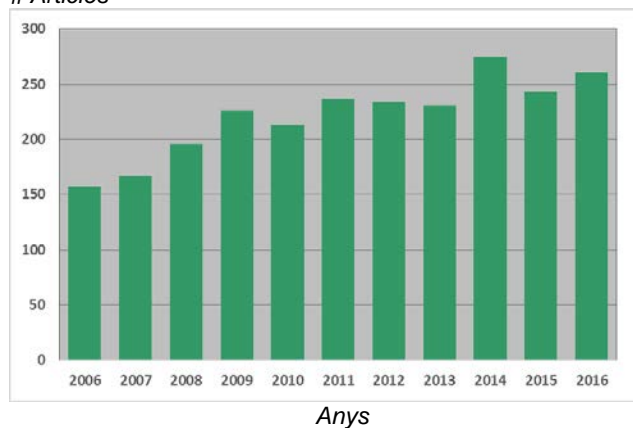
Articles



2.1.16. POLITO - Politecnico di Torino

Total d'articles publicats: **2.438**

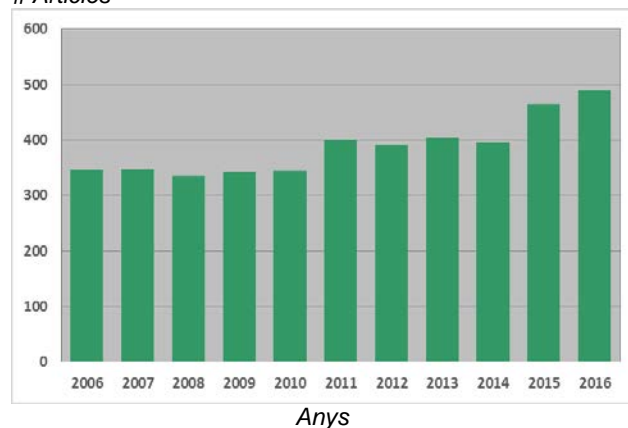
Articles



2.1.17. STANFORD - Stanford University

Total d'articles publicats: **4.266**

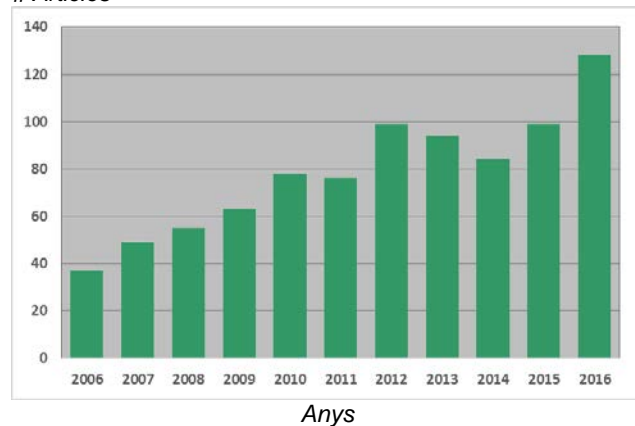
Articles



2.1.18. TCD - Trinity College Dublin

Total d'articles publicats: **862**

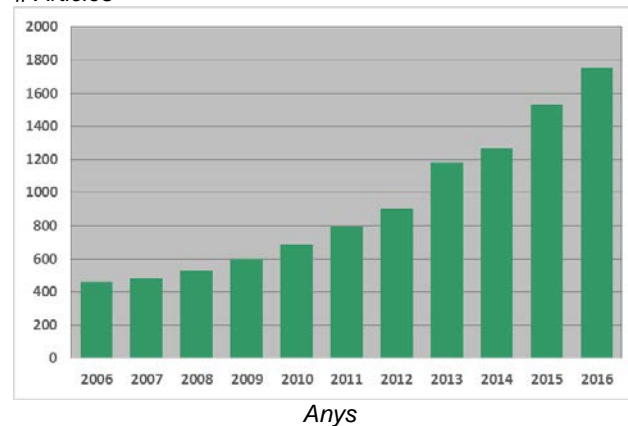
Articles



2.1.19. TH - Tsinghua University

Total d'articles publicats: **10.193**

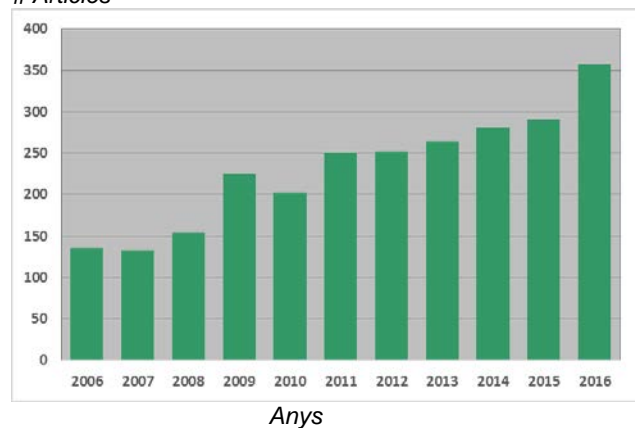
Articles



2.1.20. TUM – Technische Universität Munchen

Total d'articles publicats: **2.546**

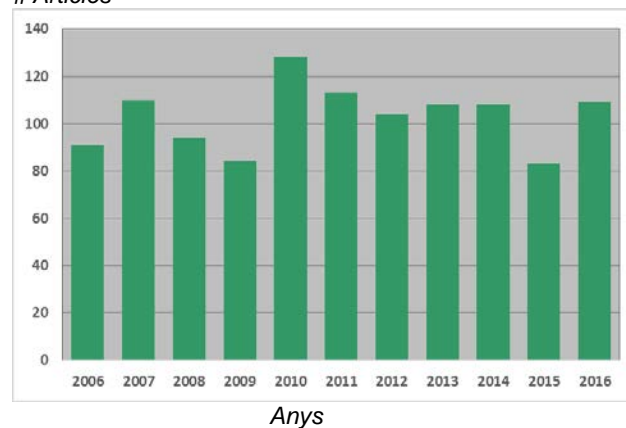
Articles



2.1.21. UCLouvain – Université Catholique de Louvain

Total d'articles publicats: **1.132**

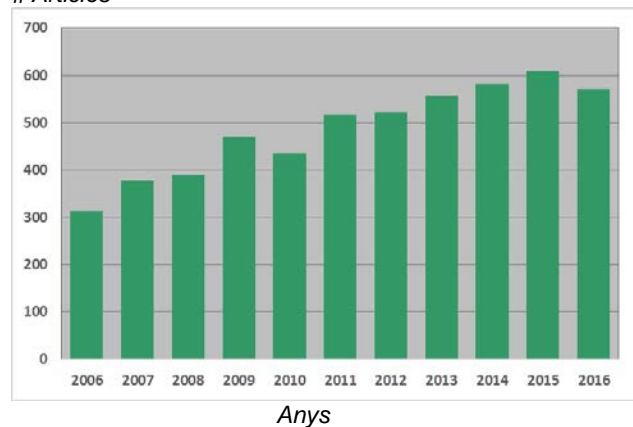
Articles



2.1.22 BERKELEY - University of California Berkeley

Total d'articles publicats: **5.343**

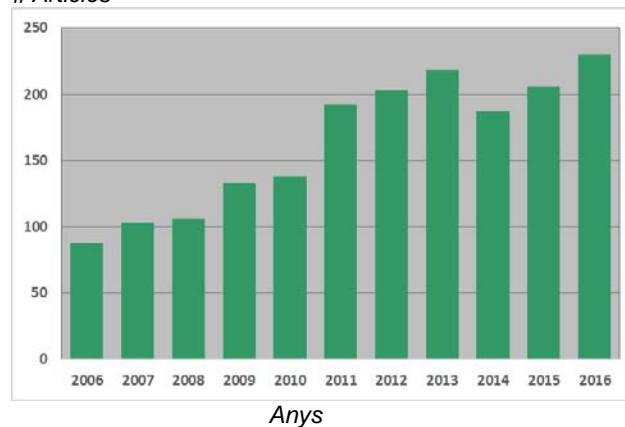
Articles



2.1.23. UPM – Universidad Politécnica de Madrid

Total d'articles publicats: **1.804**

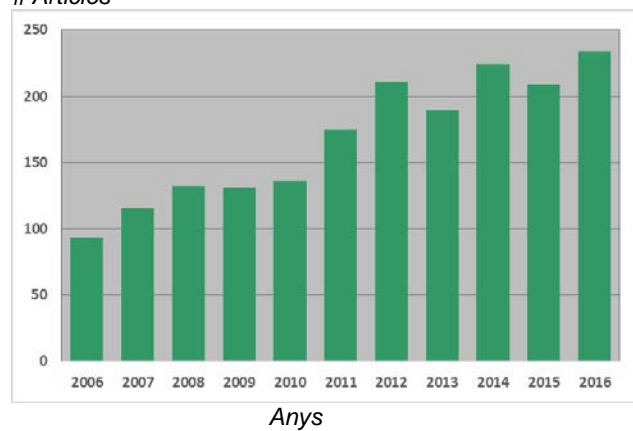
Articles



2.1.24. UPV – Universitat Politècnica de València

Total d'articles publicats: **1.850**

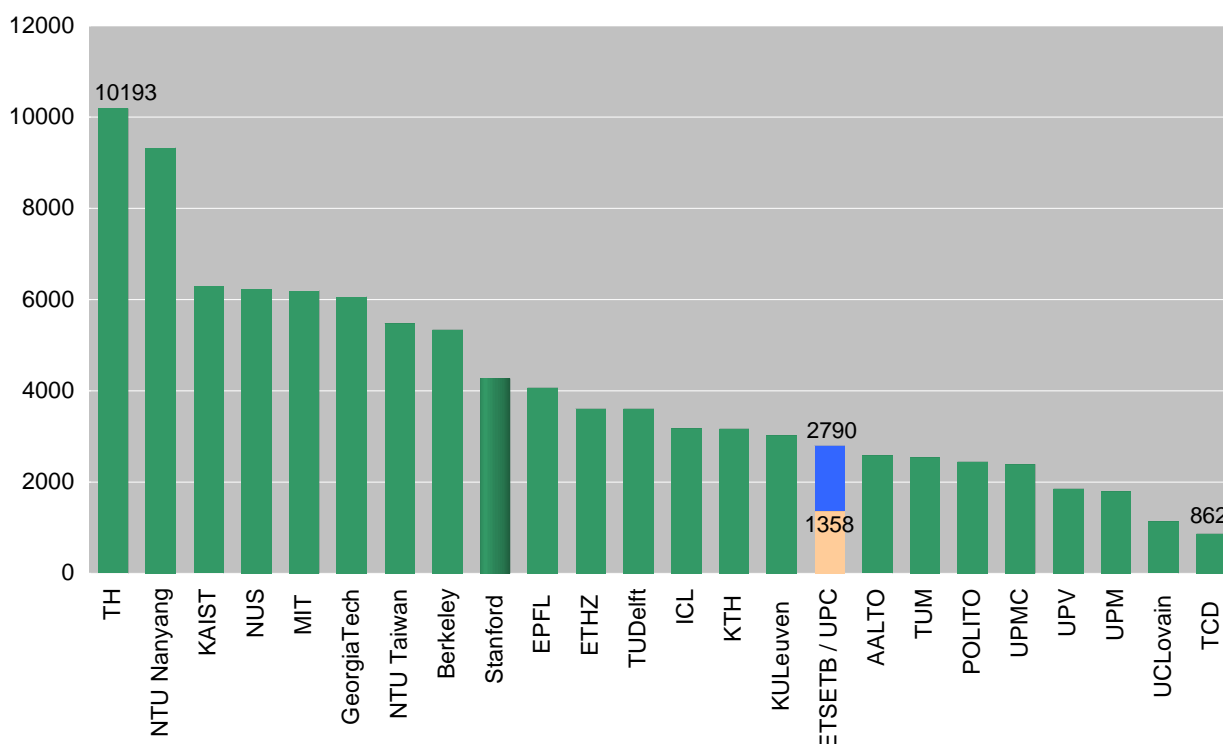
Articles



2.2. Gràfics i taula comparatius de quantitat de publicació científica

2.2.1. Gràfic i taula global 2006-2016

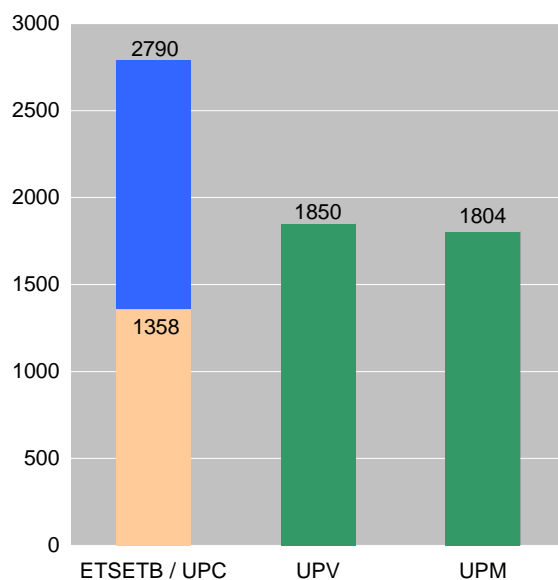
S'ha destacat en el gràfic la columna relativa a la producció UPC -2.790 articles-, i dins d'aquesta s'ha marcat –en color més clar- la xifra corresponent a publicacions que compten amb un o més professors assignats a l'ETSETB -1.358 articles; el 48,67% de la producció UPC-, independentment de que també hi participin altres professors de la UPC o de qualsevol altra institució.



Posició	Institució	Producció 2006-2016
1	TH - Tsinghua University	10.193
2	NTU Nanyang - Nanyang Technological University	9.327
3	KAIST - Korea Advanced Institute of Science Technology	6.286
4	NUS - National University of Singapore	6.222
5	MIT- Massachusetts Institute of Technology	6.199
6	GeorgiaTech - Georgia Institute of Technology	6.061
7	NTU Taiwan - National Taiwan University	5.478
8	Berkeley - University of California Berkeley	5.343
9	Stanford - Stanford University	4.266
10	EPFL - Ecole Polytechnique Fédéral de Lausanne	4.059
11	ETHZ - ETH Zürich	3.609
12	TU Delft - Delft University of Technology	3.608
13	ICL - Imperial College London	3.180
14	KTH - Royal Institute of Technology	3.166
15	KU Leuven - Katholieke Universiteit Leuven	3.029
16	UPC - Universitat Politècnica de Catalunya	2.790
-23-	-ETSETB-	-1.358-
17	AALTO - Aalto University	2.584
18	TUM - Technische Universität München	2.546
19	POLITO - Politecnico di Torino	2.438
20	UPMC - Pierre Marie Curie University Paris 6	2.396
21	UPV - Universitat Politècnica de València	1.850
22	UPM - Universidad Politécnica de Madrid	1.804
23	UCLouvain - Université Catholique de Louvain	1.132
24	TCD - Trinity College Dublin	862

2.2.2. Gràfic UPC vs. UPM i UPV 2006-2016

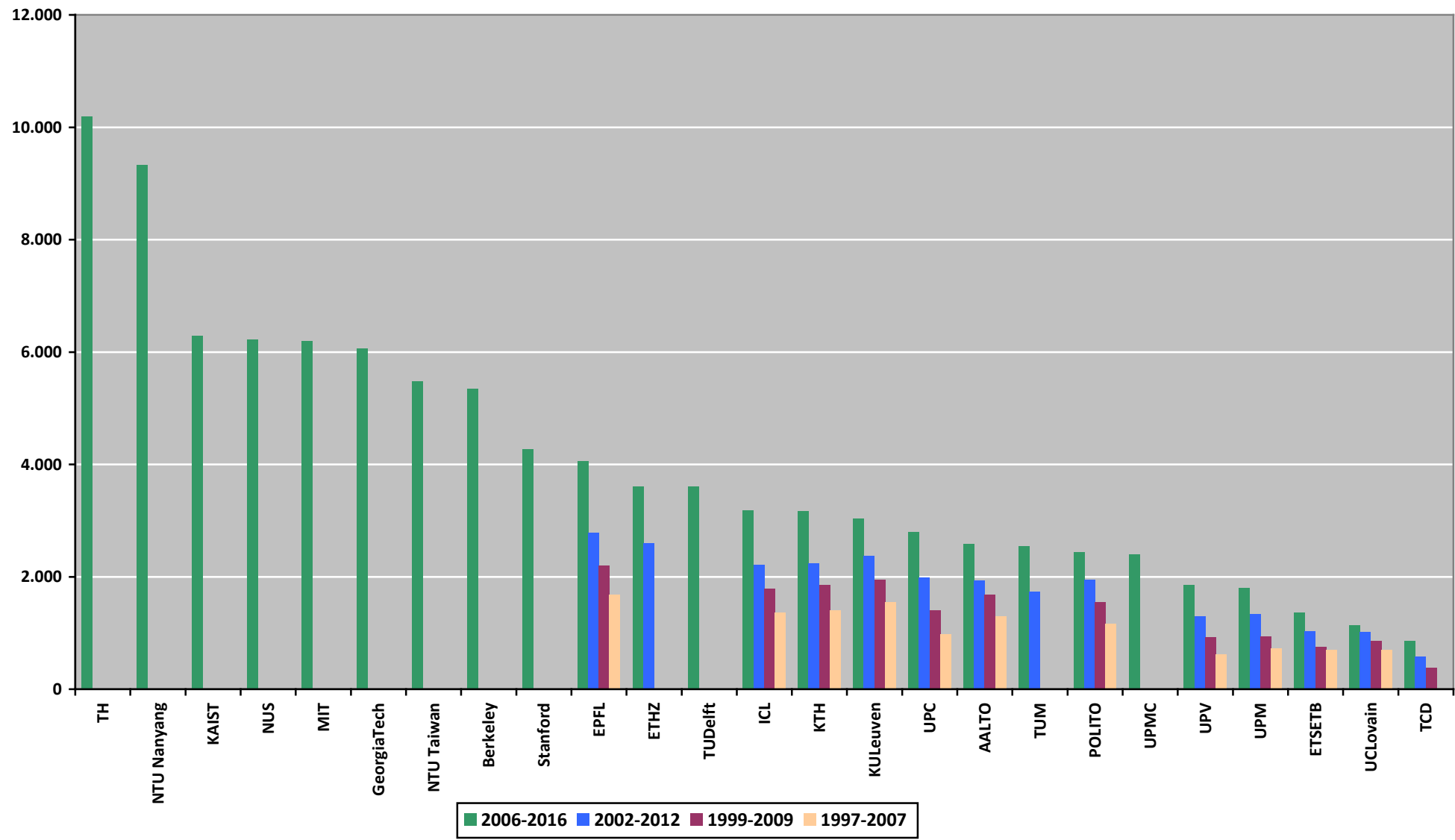
En el següent gràfic cal assenyalar que mentre que per a la UPC s'han diferenciat els articles on hi participen professors assignats a un sol centre –ETSETB– de la resta d'articles amb autors de la universitat però no ETSETB, per a les altres dues institucions això no s'ha fet i, per tant, la seva columna recull la producció de la totalitat d'unitats tant de la UPM com de la UPV.



2.2.3. Taula comparativa de resultats dels períodes 2002-2012 / 2006-2016

Institució	Producció 2002-2012	Producció 2006-2016	Variació producció	Posició 2002- 2012	Posició 2006- 2016
TH - Tsinghua University	--	10.193	--	--	1
NTU Nanyang - Nanyang Technological University	--	9.327	--	--	2
KAIST - Korea Advanced Institute of Science Technology	--	6.286	--	--	3
NUS - National University of Singapore	--	6.222	--	--	4
MIT- Massachusetts Institute of Technology	--	6.199	--	--	5
GeorgiaTech - Georgia Institute of Technology	--	6.061	--	--	6
NTU Taiwan - National Taiwan University	--	5.478	--	--	7
Berkeley - University of California Berkeley	--	5.342	--	--	8
Stanford - Stanford University	--	4.266	--	--	9
EPFL - Ecole Polytechnique Fédéral de Lausanne	2.777	4.059	+46,1%	1	10
ETHZ - ETH Zürich	2.602	3.609	+38,7%	2	11
TU Delft - Delft University of Technology	--	3.608	--	--	12
ICL - Imperial College London	2.215	3.180	+43,5%	5	13
KTH - Royal Institute of Technology	2.237	3.166	+41,5%	4	14
KULeuven - Katholieke Universiteit Leuven	2.369	3.029	+27,8%	3	15
UPC - Universitat Politècnica de Catalunya	1.979	2.790	+40,9%	6	16
-ETSETB-	-1.026-	-1.358-	+32,3%	-15-	-23-
AALTO - Aalto University	1.931	2.584	+33,8%	9	17
TUM - Technische Universität München	1.731	2.546	+47%	10	18
POLITO - Politecnico di Torino	1.944	2.438	+25,4%	8	19
UPMC - Pierre Marie Curie University Paris 6	--	2.396	--	--	20
UPV - Universitat Politècnica de València	1.300	1.850	+42,3%	13	21
UPM - Universidad Politécnica de Madrid	1.336	1.804	+35%	12	22
UCLouvain - Université Catholique de Louvain	1.011	1.132	+11,9%	15	23
TCD - Trinity College Dublin	582	862	+48,1%	18	24

2.2.4. Gràfica comparativa de quantitat de publicació científica dels períodes 1997-2007 / 1999-2009 / 2002-2012 / 2006-2016



3. Dades i gràfics de citacions rebudes [\(sumari\)](#)

Es detalla aquí el nombre de referències rebudes pels articles publicats per cada institució entre 2006 i 2016², en total i any a any, així com altres dades d'interès -mitjana de citacions per ítem i índex H-. També s'inclou el gràfic comparatiu d'aquesta dada a nivell de totes les institucions i la comparació d'àmbit estatal UPC vs. UPM i UPV.

3.1. Gràfics i dades de citacions rebudes per universitats³

3.1.1. UPC - Universitat Politècnica de Catalunya

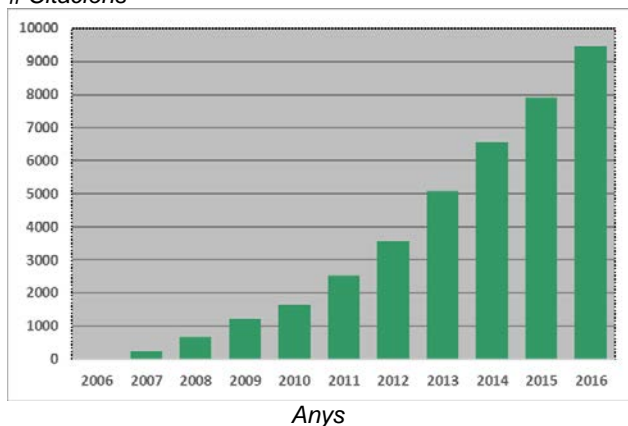
Total ítems trobats: **2.790**

Quantitat de citacions rebudes: **38.876**

Mitjana de citacions per ítem: **16,04**

Índex H: **80**

Citacions



Any	# Ítems
2006	24
2007	221
2008	666
2009	1.220
2010	1.657
2011	2.532
2012	3.558
2013	5.075
2014	6.559
2015	7.899
2016	9.465
Total	38.876

3.1.1.1. ETSETB – Escola Tècnica Superior d'Enginyeria de Telecomunicació de Barcelona

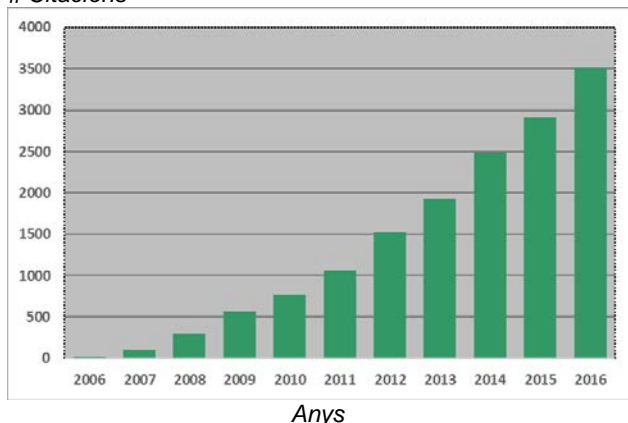
Total ítems trobats: **1.358**

Quantitat de citacions rebudes: **15.187**

Mitjana de citacions per ítem: **12,75**

Índex H: **53**

Citacions



Any	# Ítems
2006	18
2007	102
2008	287
2009	570
2010	766
2011	1.068
2012	1.530
2013	1.929
2014	2.494
2015	2.914
2016	3.509
Total	15.187

² La "Mitjana de citacions per ítem" i l'"Índex H" es mostren segons surten a WOS (calculats en base a una franja cronològica superior a la que fem servir per l'estudi). En canvi, per limitacions de la pròpia base de dades, el "Total ítems trobats" i la "Quantitat de citacions rebudes" es calculen només de la franja cronològica 2006-2016, any per any i posteriorment es mostra la suma total.

³ BBDD consultades el 22 d' octubre 2017

3.1.2. AALTO - Aalto University

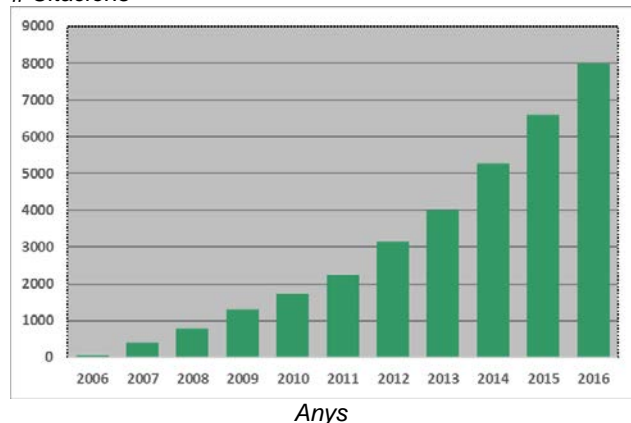
Total ítems trobats: **2.584**

Quantitat de citacions rebudes: **33.518**

Mitjana de citacions per ítem: **15,29**

Índex H: **78**

Citacions



3.1.3. TUDelft - Delft University of Technology

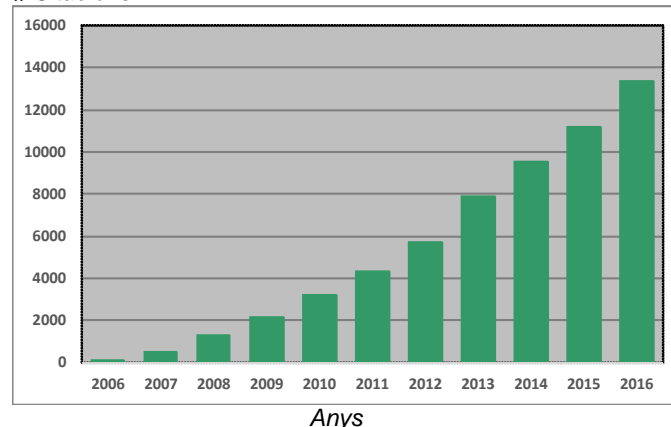
Total ítems trobats: **3.608**

Quantitat de citacions rebudes: **59.568**

Mitjana de citacions citacionsper ítem: **19,2**

Índex H: **99**

Citacions



3.1.4. EPFL - Ecole Polytechnique Fédéral de Lausanne

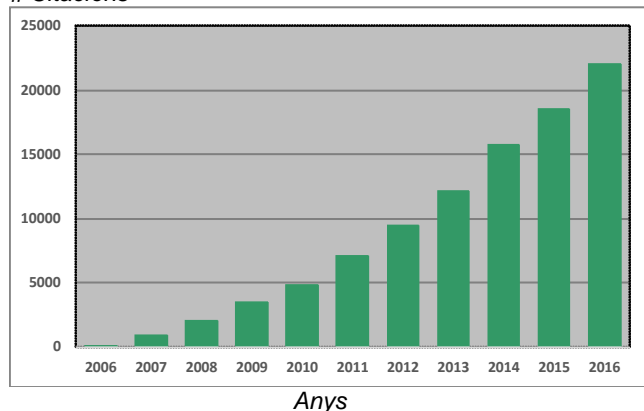
Total ítems trobats: **4.059**

Quantitat de citacions rebudes: **96.735**

Mitjana de citacions per ítem: **27,78**

Índex H: **131**

Citacions



3.1.5. ETHZ - ETH Zürich

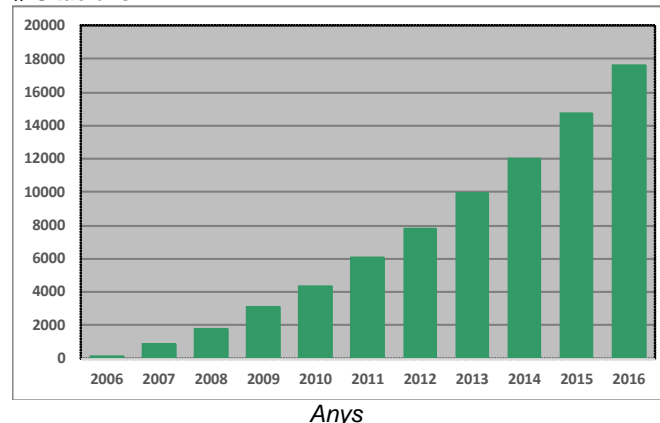
Total ítems trobats: **3.609**

Quantitat de citacions rebudes: **78.762**

Mitjana de citacions per ítem: **25,49**

Índex H: **113**

Citacions



3.1.6. GeorgiaTech - Georgia Institute of Technology

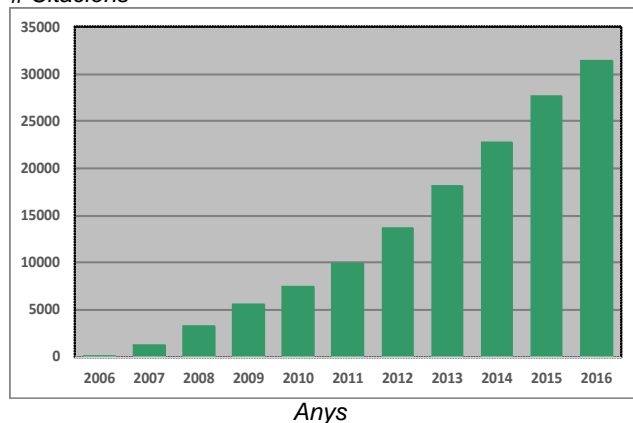
Total ítems trobats: **6.061**

Quantitat de citacions rebudes: **141.875**

Mitjana de citacions per ítem: **27,45**

Índex H: **160**

Citacions



3.1.7. ICL - Imperial College London

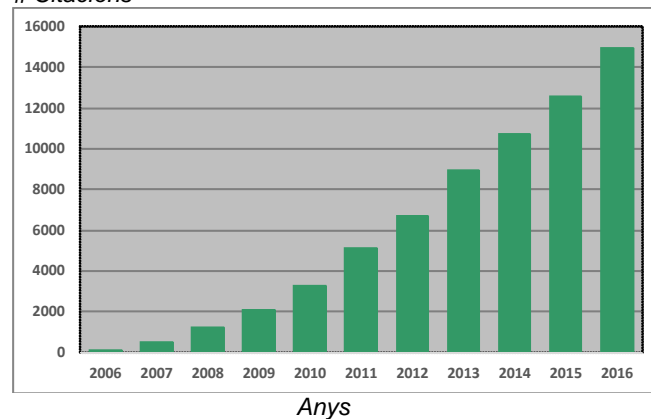
Total ítems trobats: **3.180**

Quantitat de citacions rebudes: **66.486**

Mitjana de citacions per ítem: **24,41**

Índex H: **109**

Citacions



3.1.8. KAIST - Korea Advanced Institute of Science Technology

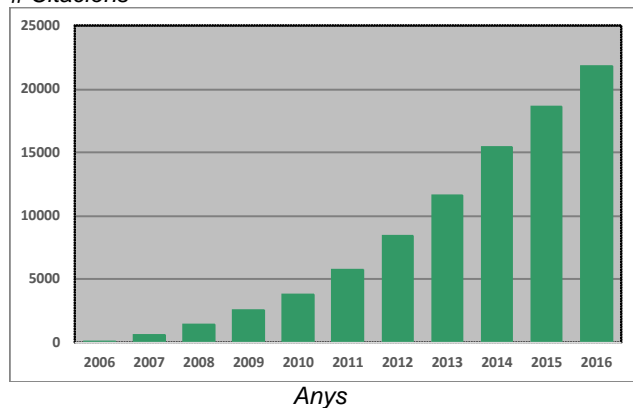
Total ítems trobats: **6.286**

Quantitat de citacions rebudes: **90.414**

Mitjana de citacions per ítem: **17,24**

Índex H: **124**

Citacions



3.1.9. KTH – Royal Institute of Technology

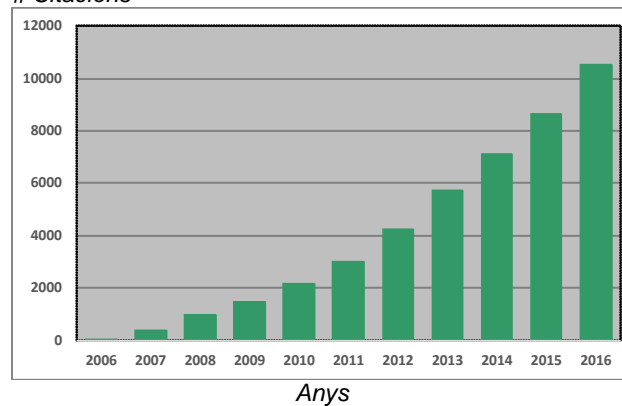
Total ítems trobats: **3.166**

Quantitat de citacions rebudes: **44.568**

Mitjana de citacions per ítem: **16,54**

Índex H: **88**

Citacions



3.1.10. KULeuven - Katholieke Universiteit Leuven

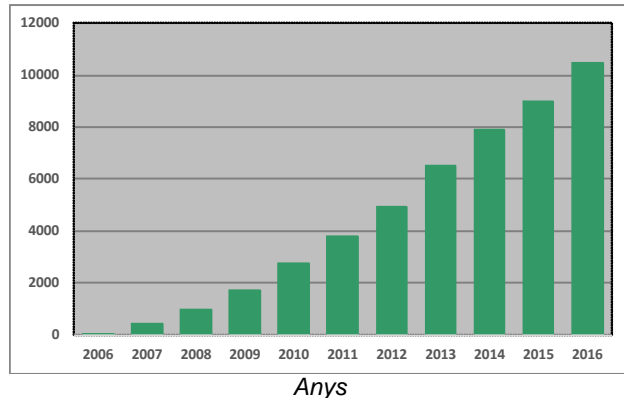
Total ítems trobats: **3.029**

Quantitat de citacions rebudes: **48.761**

Mitjana de citacions per ítem: **18,45**

Índex H: **89**

Citacions



3.1.11. MIT - Massachusetts Institute of Technology

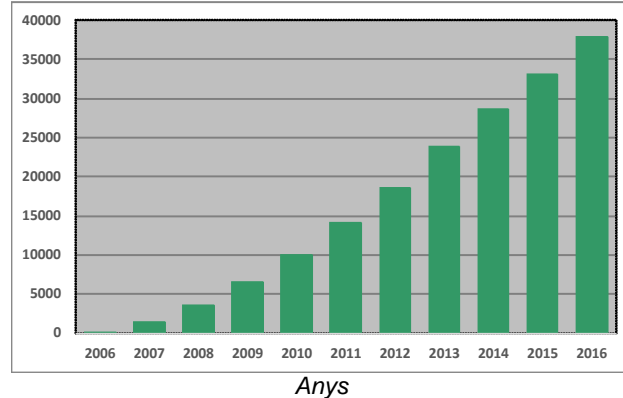
Total ítems trobats: **6.199**

Quantitat de citacions rebudes: **178.484**

Mitjana de citacions per ítem: **33,37**

Índex H: **179**

Citacions



3.1.12. NTU Nanyang - Nanyang Technological University

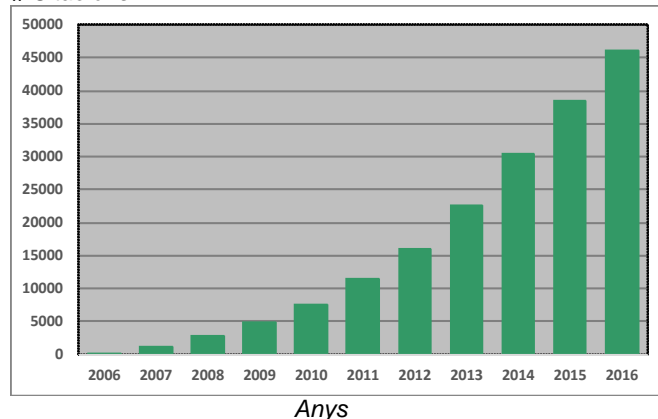
Total ítems trobats: **9.327**

Quantitat de citacions rebudes: **182.565**

Mitjana de citacions per ítem: **23,5**

Índex H: **166**

Citacions



3.1.13. NTU Taiwan - National Taiwan University

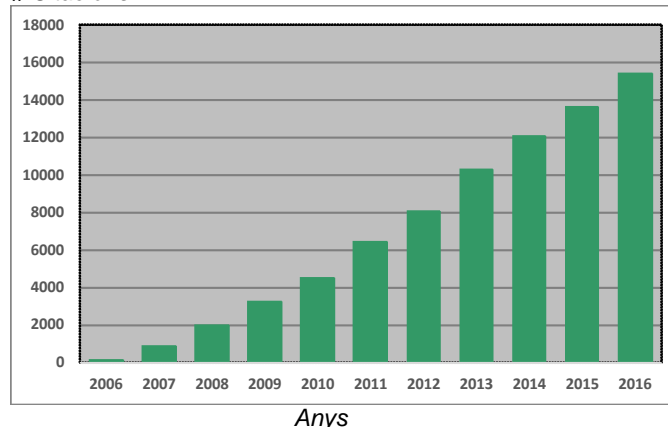
Total ítems trobats: **5.478**

Quantitat de citacions rebudes: **76.941**

Mitjana de citacions per ítem: **16,16**

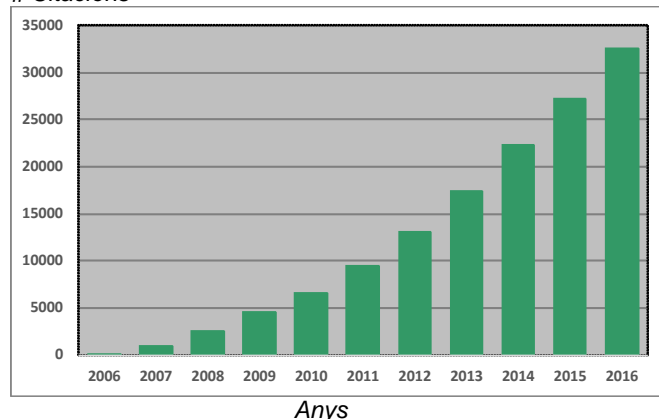
Índex H: **98**

Citacions

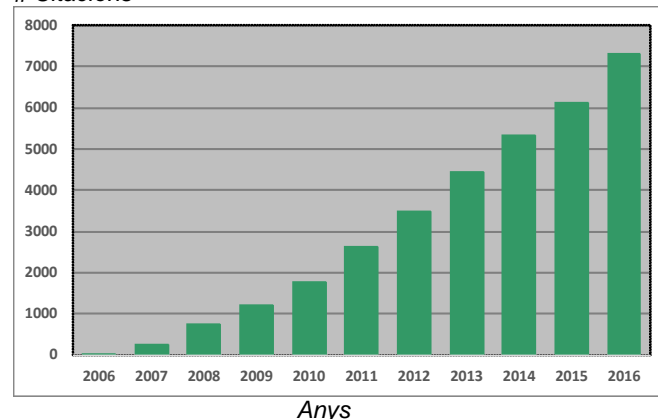


3.1.14. NUS - National University of SingaporeTotal ítems trobats: **6.222**Quantitat de citacions rebudes: **137.540**Mitjana de citacions per ítem: **26,11**Índex H: **146**

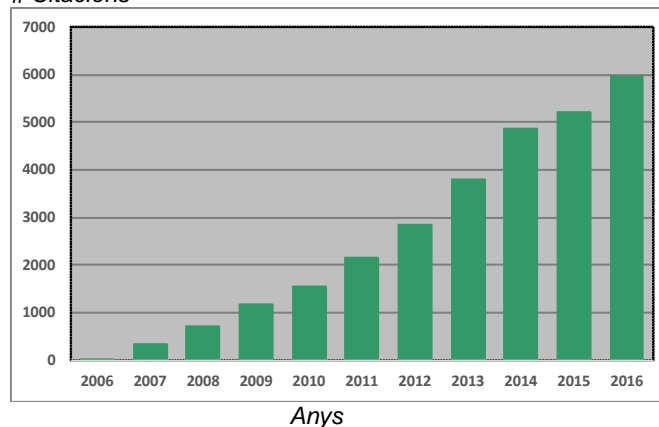
Citacions

**3.1.15. UPMC - Pierre Marie Curie University Paris 6**Total ítems trobats: **2.393**Quantitat de citacions rebudes: **33.493**Mitjana de citacions per ítem: **16,24**Índex H: **73**

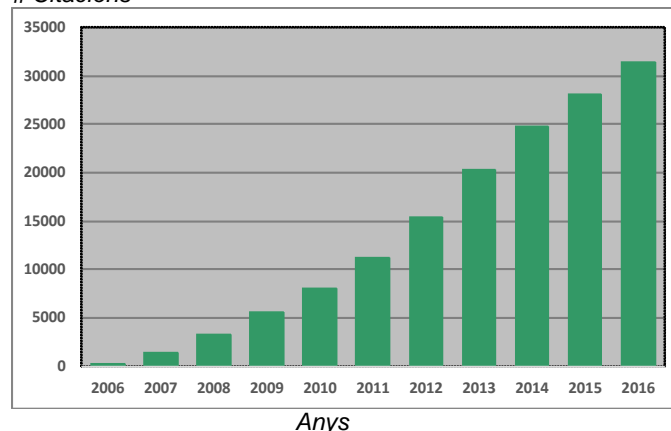
Citacions

**3.1.16. POLITO - Politecnico di Torino**Total ítems trobats: **2.438**Quantitat de citacions rebudes: **28.811**Mitjana de citacions per ítem: **13,46**Índex H: **67**

Citacions

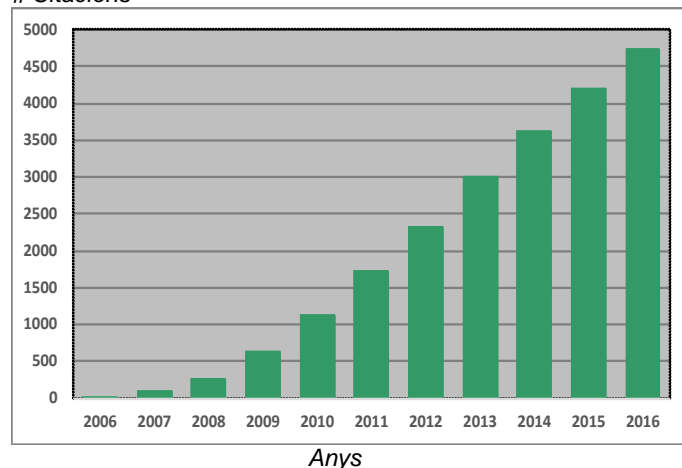
**3.1.17. Stanford - Stanford University**Total ítems trobats: **4.273**Quantitat de citacions rebudes: **150.403**Mitjana de citacions per ítem: **40,84**Índex H: **173**

Citacions

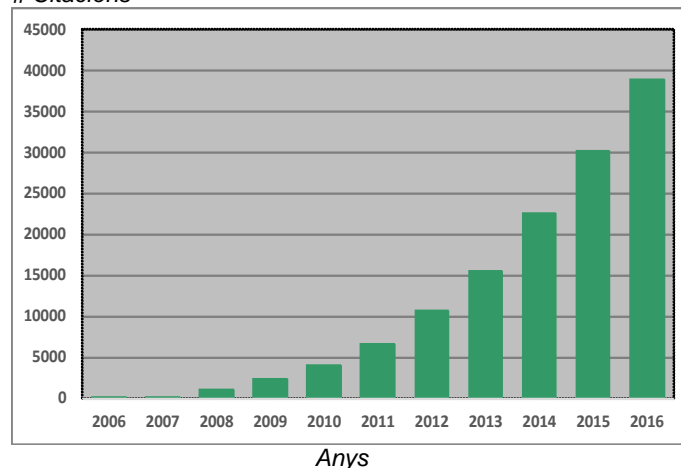


3.1.18. TCD – Trinity College DublinTotal ítems trobats: **862**Quantitat de citacions rebudes: **21.839**Mitjana de citacions per ítem: **29,78**Índex H: **71**

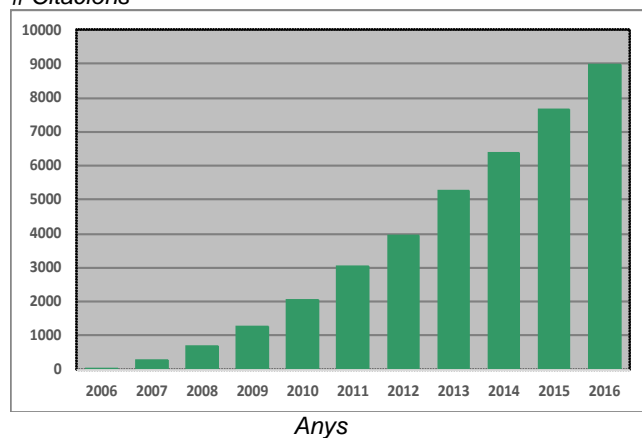
Citacions

**3.1.19. TH - Tsinghua University**Total ítems trobats: **10.193**Quantitat de citacions rebudes: **132.929**Mitjana de citacions per ítem: **17,43**Índex H: **152**

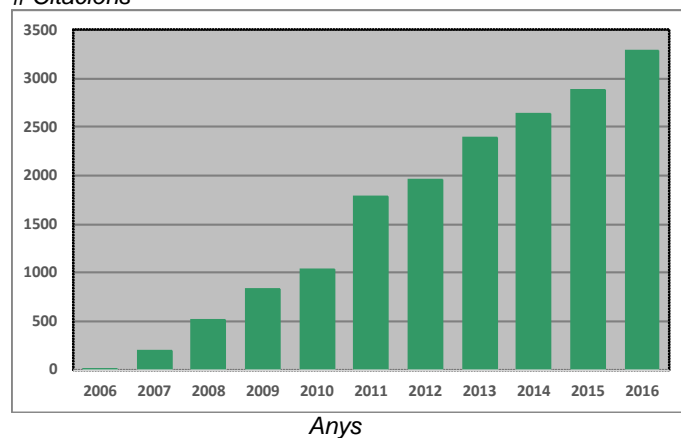
Citacions

**3.1.20. TUM - Technische Universität München**Total ítems trobats: **2.546**Quantitat de citacions rebudes: **39.747**Mitjana de citacions per ítem: **18,17**Índex H: **83**

Citacions

**3.1.21. UCLouvain - Université Catholique de Louvain**Total ítems trobats: **1.132**Quantitat de citacions rebudes: **17.597**Mitjana de citacions per ítem: **17,6**Índex H: **60**

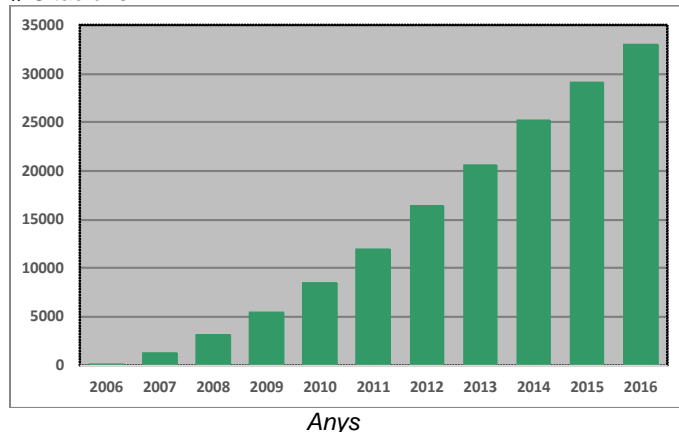
Citacions



3.1.22. Berkeley - University of California Berkeley

Total ítems trobats: **5.343**
 Quantitat de citacions rebudes: **155.451**
 Mitjana de citacions per ítem: **33,67**
 Índex H: **175**

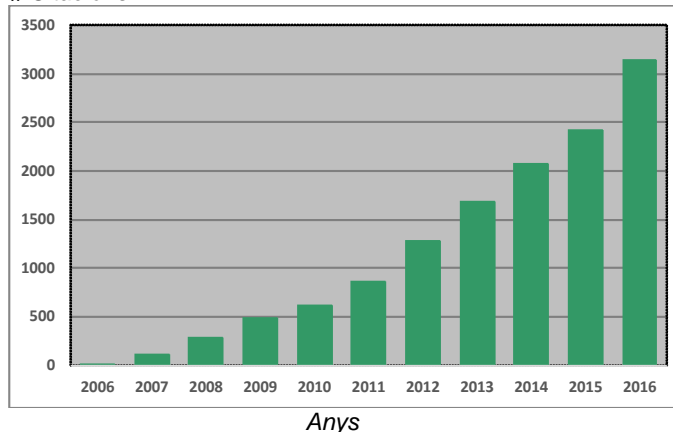
Citacions



3.1.23. UPM - Universidad Politécnica de Madrid

Total ítems trobats: **1.804**
 Quantitat de citacions rebudes: **13.032**
 Mitjana de citacions per ítem: **8,41**
 Índex H: **44**

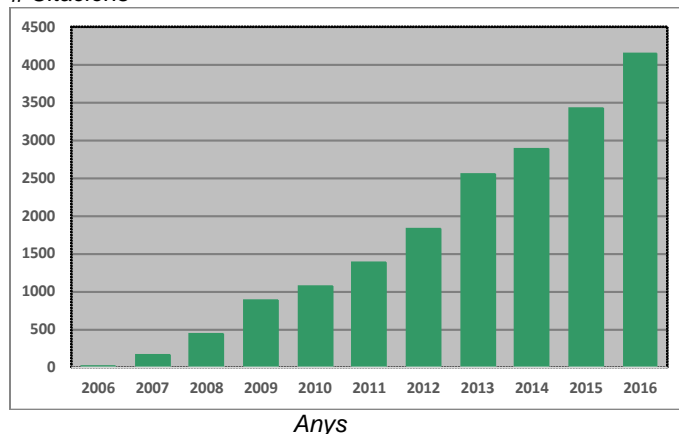
Citacions



3.1.24. UPV – Universitat Politècnica de València

Total ítems trobats: **1.850**
 Quantitat de citacions rebudes: **18.916**
 Mitjana de citacions per ítem: **11,71**
 Índex H: **58**

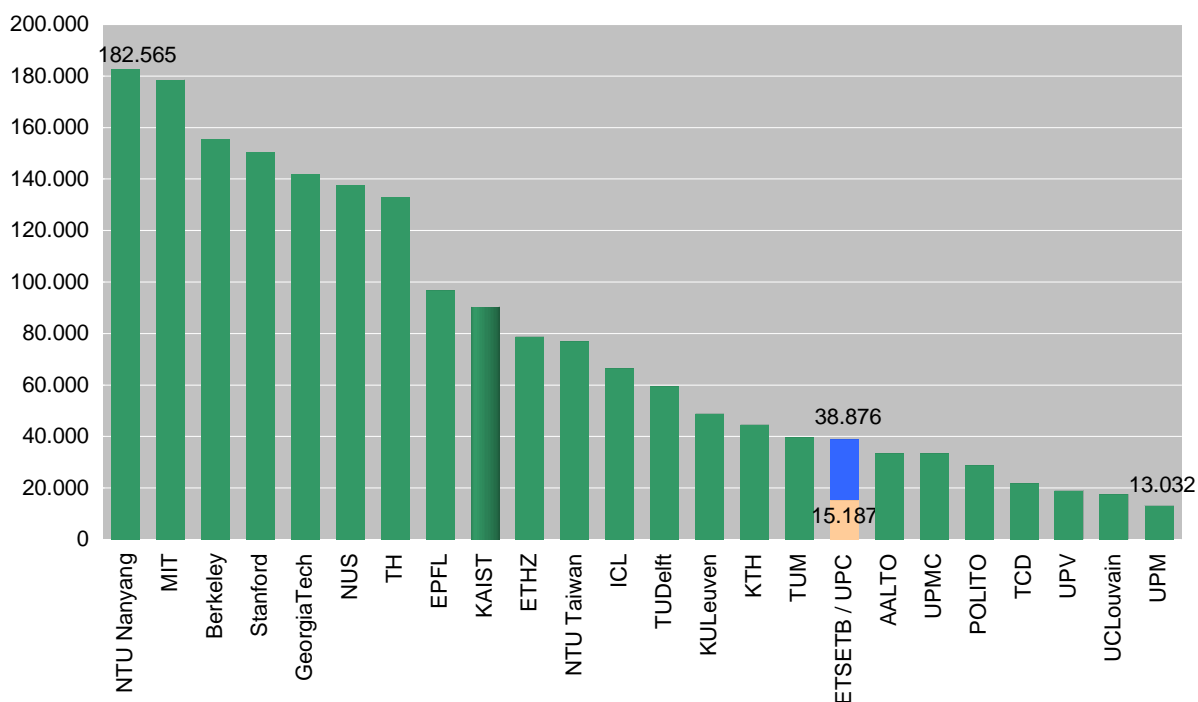
Citacions



3.2. Gràfics i taula comparatius de les citacions a la publicació científica

3.2.1. Gràfic i taula global 2006-2016

Es diferencia gràficament la columna relativa a la producció UPC -38.876 citacions-, i dins d'aquesta, la xifra corresponent a referències a publicacions que compten amb un o més professors assignats a l'ETSETB -15.187 citacions, el 39,06% de la producció UPC-.

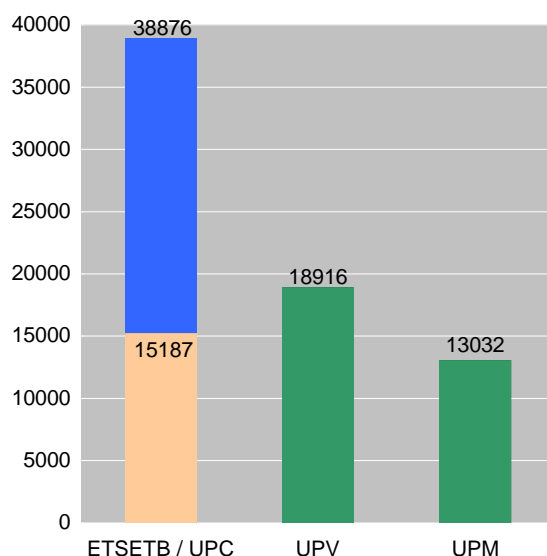


Posició	Institució	Total citacions rebudes 2006-2016
1	NTU Nanyang - Nanyang Technological University	182.565
2	MIT - Massachusetts Institute of Technology	178.484
3	Berkeley - University of California Berkeley	155.451
4	Stanford - Stanford University	150.403
5	GeorgiaTech - Georgia Institute of Technology	141.875
6	NUS - National University of Singapore	137.540
7	TH - Tsinghua University	132.929
8	EPFL - Ecole Polytechnique Fédéral de Lausanne	96.735
9	KAIST - Korea Advanced Institute of Science Technology	90.414
10	ETHZ - ETH Zürich	78.762
11	NTU Taiwan - National Taiwan University	76.941
12	ICL - Imperial College London	66.486
13	TU Delft - Delft University of Technology	59.568
14	KU Leuven - Katholieke Universiteit Leuven	48.761
15	KTH - Royal Institute of Technology	44.568
16	TUM - Technische Universität München	39.747

17	UPC - Universitat Politècnica de Catalunya	38.876
-23-	-ETSETB-	15.187
18	AALTO - Aalto University	33.518
19	UPMC - Pierre Marie Curie University Paris 6	33.493
20	POLITO - Politecnico di Torino	28.811
21	TCD - Trinity College Dublin	21.839
22	UPV - Universitat Politècnica de València	18.916
23	UCLouvain - Université Catholique de Louvain	17.597
24	UPM - Universidad Politécnica de Madrid	13.032

3.2.2. Gràfic UPC vs. UPM i UPV 2006-2016

Altra vegada cal assenyalar que mentre que per a la UPC s'han diferenciat les citacions a articles on hi participen professors assignats a un sol centre –ETSETB– dels de la resta de la universitat, per a la UPM com de la UPV això no s'ha fet.

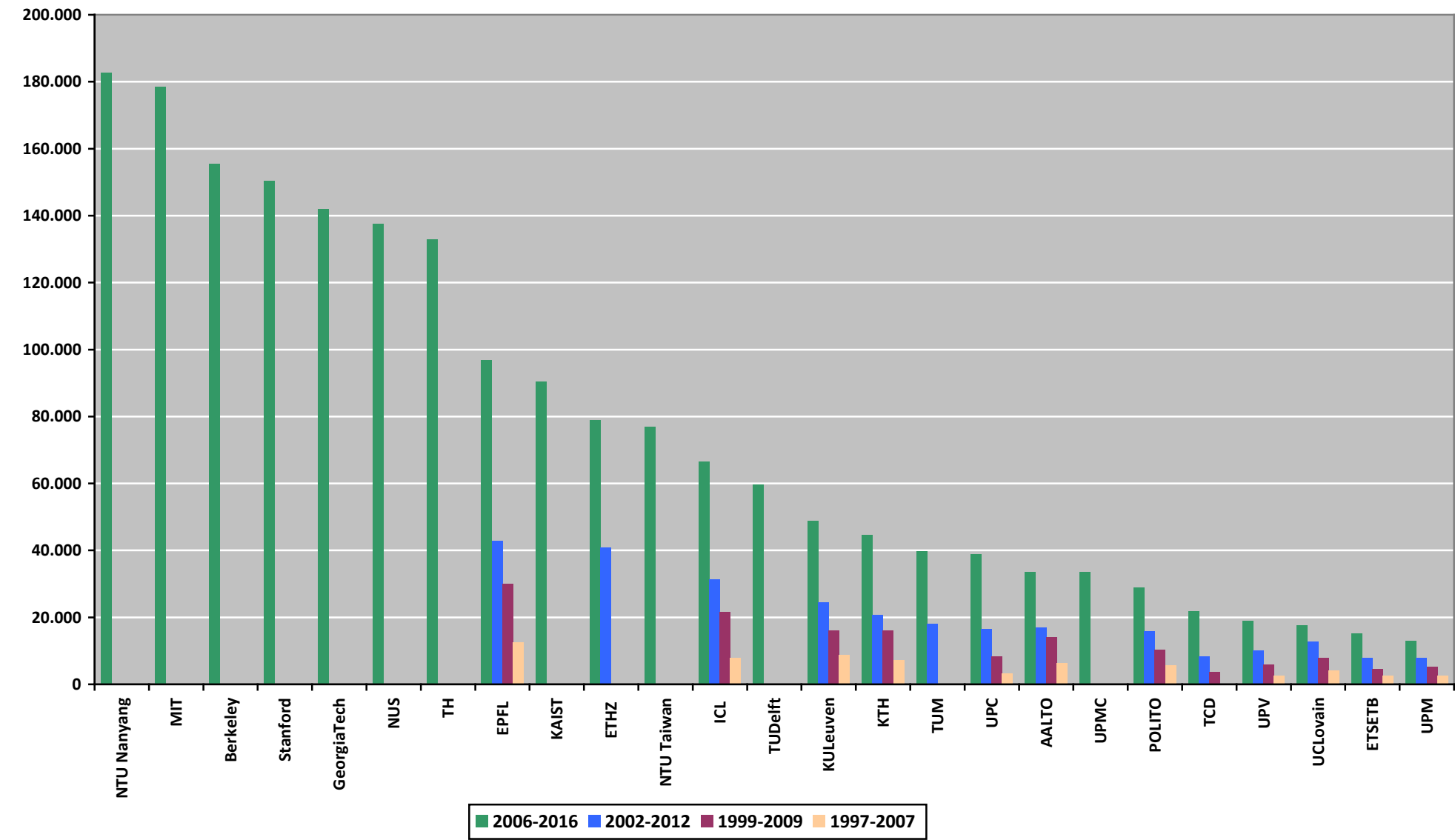


3.2.3. Taula comparativa de citacions rebudes als períodes 2002-2012 / 2006-2016

Institució	Citacions rebudes 2002-2012	Citacions rebudes 2006-2016	Variació Citacions	Posició 2002-2012	Posició 2006-2016
NTU Nanyang - Nanyang Technological University	--	182.565	--	--	1
MIT - Massachusetts Institute of Technology	--	178.484	--	--	2
Berkeley - University of California Berkeley	--	155.451	--	--	3
Stanford - Stanford University	--	150.403	--	--	4
GeorgiaTech - Georgia Institute of Technology	--	141.875	--	--	5
NUS - National University of Singapore	--	137.540	--	--	6
TH - Tsinghua University	--	132.929	--	--	7
EPFL - Ecole Polytechnique Fédéral de Lausanne	42.861	96.735	+125,6%	1	8
KAIST - Korea Advanced Institute of Science Technology	--	90.414	--	--	9
ETHZ - ETH Zürich	40.870	78.762	+92,71%	2	10
NTU Taiwan - National Taiwan University	--	76.941	--	--	11
ICL - Imperial College London	31.244	66.486	+112,7%	3	12
TU Delft - Delft University of	--	59.568	--	--	13

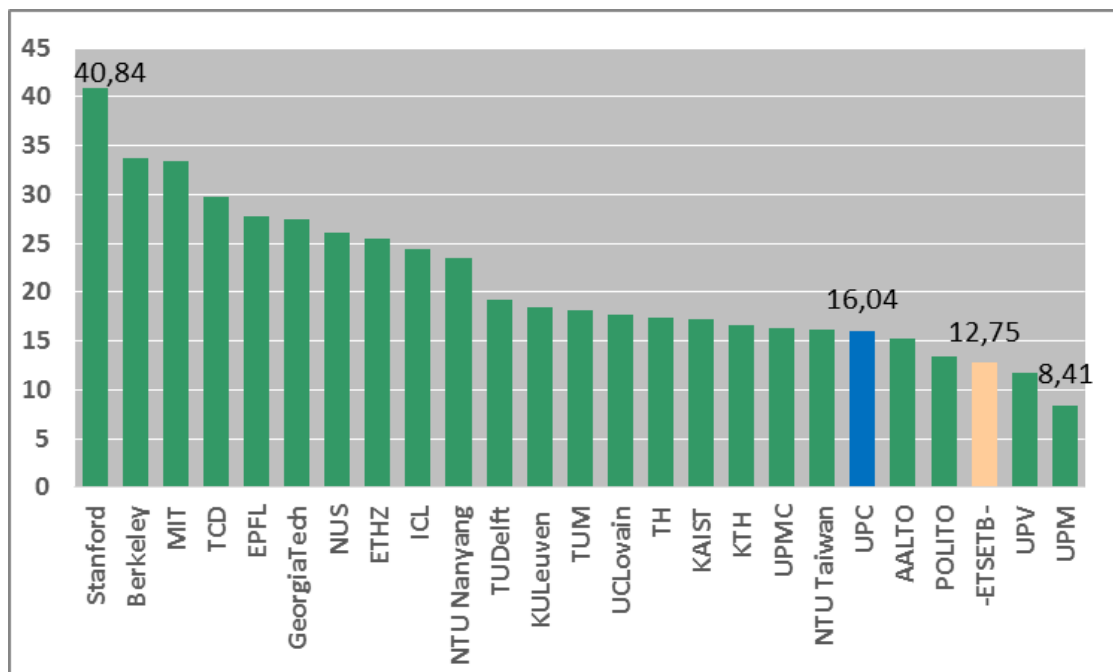
Technology					
KULeuven - Katholieke Universiteit Leuven	24.525	48.761	+98,82%	4	14
KTH - Royal Institute of Technology	20.683	44.568	+115,48%	7	15
TUM - Technische Universität München	17.962	39.747	+121,28%	8	16
UPC – Universitat Politècnica de Catalunya	16.598	38.876	+134,22%	10	17
-ETSETB-	-7.847-	-15.187-	+93,53%	-17-	-24-
AALTO - Aalto University	16.989	33.518	+97,29%	9	18
UPMC - Pierre Marie Curie University Paris 6	--	33.493	--	--	19
POLITO - Politecnico di Torino	15.795	28.811	+82,40%	11	20
TCD - Trinity College Dublin	8.256	21.839	+164,52%	15	21
UPV - Universitat Politècnica de València	10.037	18.916	+88,46%	14	22
UCLouvain - Université Catholique de Louvain	12.787	17.597	+37,61%	12	23
UPM - Universidad Politécnica de Madrid	7.874	13.032	+65,50%	16	24

3.2.4. Gràfica comparativa de citacions rebudes als períodes 1997-2007 / 1999-2009 / 2002-2012 / 2006-2016



3.3. Gràfic i taula comparatius de la mitjana de citacions rebudes

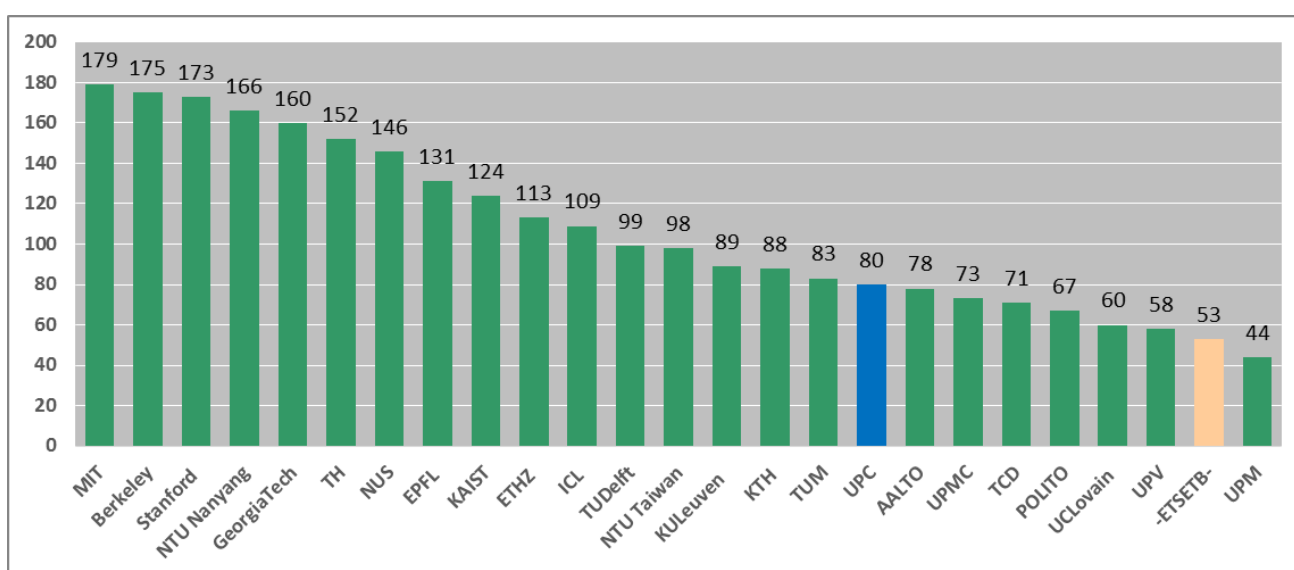
Es mostren per separat la columna relativa a la mitjana UPC -16,04-, i la corresponent a la mitjana de l'ETSETB -12,75-.



Institució	Mitjana de citacions 2002-2012	Mitjana de citacions 2006-2016	Variació mitjana	Posició 2002-2012	Posició 2006-2016
Stanford - Stanford University	--	40,84	--	--	1
Berkeley - University of California Berkeley	--	33,67	--	--	2
MIT - Massachusetts Institute of Technology	--	33,37	--	--	3
TCD - Trinity College Dublin	14,18	29,78	+110,01%	3	4
EPFL - Ecole Polytechnique Fédéral de Lausanne	15,43	27,78	+80,03%	2	5
GeorgiaTech - Georgia Institute of Technology	--	27,45	--	--	6
NUS - National University of Singapore	--	26,11	--	--	7
ETHZ - ETH Zürich	15,70	25,49	+62,35%	1	8
ICL - Imperial College London	14,10	24,41	+73,12%	4	9
NTU Nanyang - Nanyang Technological University	--	23,5	--	--	10
TUDelft - Delft University of Technology	--	19,2	--	--	11
KULeuven - Katholieke Universiteit Leuven	10,35	18,45	+78,26%	9	12
TUM - Technische Universität München	10,37	18,17	+75,21%	8	13
UCLouvain - Université Catholique de Louvain	12,64	17,6	+39,24%	6	14
TH - Tsinghua University	--	17,43	--	--	15
KAIST - Korea Advanced Institute of Science Technology	--	17,24	--	--	16
KTH - Royal Institute of Technology	9,24	16,54	+79%	12	17

UPMC - Pierre Marie Curie University Paris 6	--	16,24	--	--	18
NTU Taiwan - National Taiwan University	--	16,16	--	--	19
UPC - Universitat Politècnica de Catalunya	8,38	16,04	+91,40%	14	20
-ETSETB-	-7,64-	-12,75-	+66,88%	-17-	-23 -
AALTO - Aalto University	8,79	15,29	+73,94%	13	21
POLITO - Politecnico di Torino	8,12	13,46	+65,76%	15	22
UPV - Universitat Politècnica de València	7,72	11,71	+51,68%	16	23
UPM - Universidad Politécnica de Madrid	5,87	8,41	+43,27%	18	24

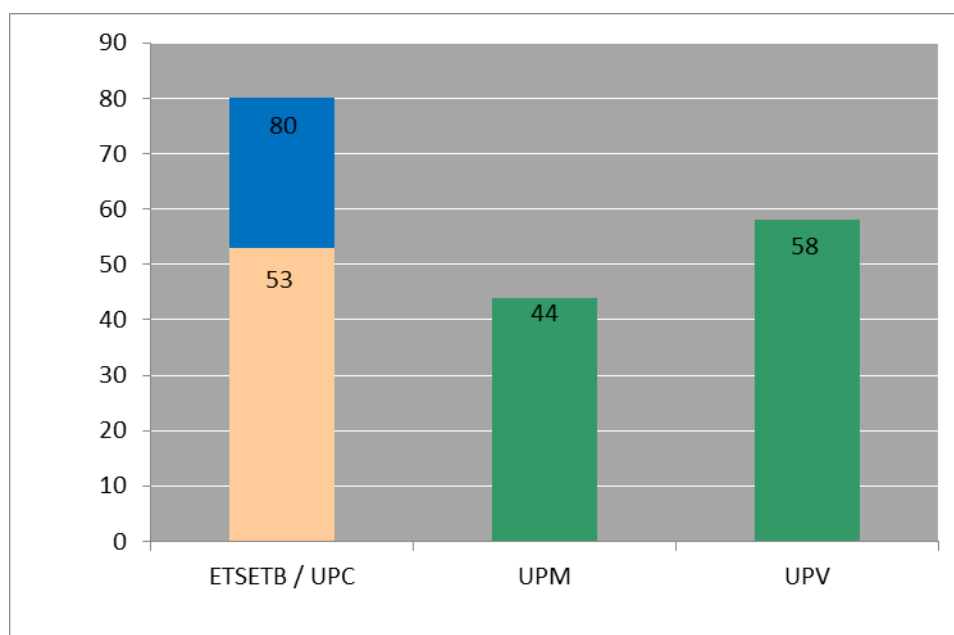
3.4. Gràfic i taula comparatius d'índex H



Institució	Índex H 2006-2016	Posició
MIT - Massachusetts Institute of Technology	179	1
Berkeley - University of California Berkeley	175	2
Stanford - Stanford University	173	3
NTU Nanyang - Nanyang Technological University	166	4
GeorgiaTech - Georgia Institute of Technology	160	5
TH - Tsinghua University	152	6
NUS - National University of Singapore	146	7
EPFL - Ecole Polytechnique Fédéral de Lausanne	131	8
KAIST - Korea Advanced Institute of Science Technology	124	9
ETHZ - ETH Zürich	113	10
ICL - Imperial College London	109	11
TU Delft - Delft University of Technology	99	12
NTU Taiwan - National Taiwan University	98	13
KU Leuven - Katholieke Universiteit Leuven	89	14
KTH - Royal Institute of Technology	88	15
TUM - Technische Universität München	83	16
UPC - Universitat Politècnica de Catalunya	80	17
-ETSETB-	-53-	-23-
AALTO - Aalto University	78	18

UPMC - Pierre Marie Curie University Paris 6	73	19
TCD - Trinity College Dublin	71	20
POLITO - Politecnico di Torino	67	21
UCLouvain - Université Catholique de Louvain	60	22
UPV - Universitat Politècnica de València	58	23
UPM - Universidad Politécnica de Madrid	44	24

3.4.1 Gràfic UPC vs. UPM i UPV d'índex H 2006-2016

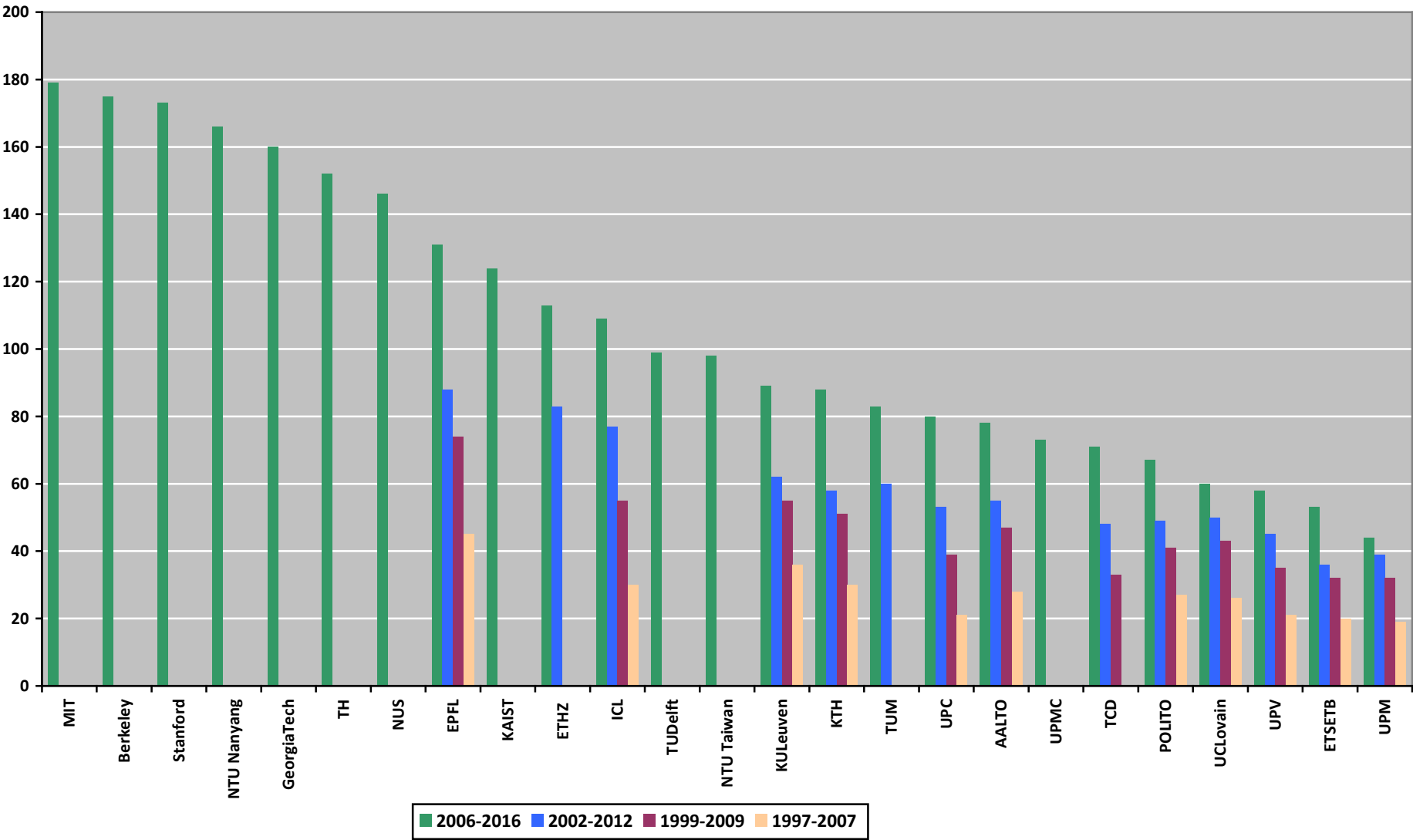


3.4.2 Taula comparativa d'índex H dels períodes 2002-2012 / 2006-2016

Institució	Índex H 2002-2012	Índex H 2006-2016	Variació Índex H	Posició 2002-2012	Posició 2006-2016
MIT - Massachusetts Institute of Technology	--	179	--	--	1
Berkeley - University of California Berkeley	--	175	--	--	2
Stanford - Stanford University	--	173	--	--	3
NTU Nanyang - Nanyang Technological University	--	166	--	--	4
GeorgiaTech - Georgia Institute of Technology	--	160	--	--	5
TH - Tsinghua University	--	152	--	--	6
NUS - National University of Singapore	--	146	--	--	7
EPFL - Ecole Polytechnique Fédéral de Lausanne	88	131	+48,86%	1	8
KAIST - Korea Advanced Institute of Science Technology	--	124	--	--	9
ETHZ - ETH Zürich	83	113	+36,14%	2	10
ICL - Imperial College London	77	109	+41,56%	3	11

TU Delft - Delft University of Technology	--	99	--	--	12
NTU Taiwan - National Taiwan University	--	98	--	--	13
KU Leuven - Katholieke Universiteit Leuven	62	89	+43,55%	6	14
KTH - Royal Institute of Technology	58	88	+51,72%	8	15
TUM - Technische Universität München	60	83	+38,88%	7	16
UPC - Universitat Politècnica de Catalunya	53	80	+50,94%	10	17
-ETSETB-	-36-	-53-	+47,22%	-19-	-24-
AALTO - Aalto University	55	78	+41,82%	9	18
UPMC - Pierre Marie Curie University Paris 6	--	73	--	--	19
TCD - Trinity College Dublin	48	71	+47,92%	13	20
POLITO - Politecnico di Torino	49	67	+36,73%	12	21
UCLouvain - Université Catholique de Louvain	50	60	+20,00%	11	22
UPV - Universitat Politècnica de València	45	58	+28,89%	14	23
UPM - Universidad Politécnica de Madrid	39	44	+12,82%	18	24

3.4.3 Gràfica comparativa d'índex H dels períodes 1997-2007 / 1999-2009 / 2002-2012 / 2006-2016



4. Articles més citats 2006-2016 [\(sumari\)](#)

Institució a institució, es detalla a continuació la llista dels 10 articles més referenciats durant el període de temps que abasta l'informe. Es tracta dels articles que han rebut més citacions en el període 2006-2016, dels que van ser publicats en el mateix període. Per a la UPC es recullen els 20 primers articles indexats al WoS.

4.1. UPC - Universitat Politècnica de Catalunya

També aquí es destaquen amb el títol en negreta aquells articles amb un o més autors amb assignació a l'ETSETB. S'observa que, dels 20 títols recollits, 6 pertanyen a aquesta categoria. Això representa un 30% del total dels articles esmentats. Els articles que no pertanyen a autors de l'ETSETB tenen marcat en negreta els autors que pertanyen a la UPC.

Autor / article	Revista	# Citacions	Posició
Kouro, Samir; Malinowski, Mariusz; Gopakumar, K.; Pou, Josep ; Franquelo, Leopoldo G.; Wu, Bin; Rodriguez, Jose; Perez, Marcelo A.; Leon, Jose I. Recent Advances and Industrial Applications of Multilevel Converters	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS Volume: 57 Issue: 8 Pages: 2553-2580 Published: AUG 2010	1100	1
Guerrero, Josep M.; Vasquez, Juan C.; Matas, Jose; Garcia de Vicuna, Luis; Castilla, Miguel Hierarchical Control of Droop-Controlled AC and DC Microgrids-A General Approach Toward Standardization	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS Volume: 58 Issue: 1 Pages: 158-172 Published: JAN 2011	864	2
Rodriguez, Pedro; Pou, Josep; Bergas, Joan; Candela, J. Ignacio; Burgos, Rolando P.; Boroyevich, Dushan Decoupled double synchronous reference frame PLL for power converters control	IEEE TRANSACTIONS ON POWER ELECTRONICS Volume: 22 Issue: 2 Pages: 584-592 Published: MAR 2007	394	3
Guerrero, Josep M.; Matas, Jose; Garcia de Vicuna, Luis; Castilla, Miguel; Miret, Jaume Decentralized control for parallel operation of distributed generation inverters using resistive output impedance	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS Volume: 54 Issue: 2 Pages: 994-1004 Published: APR 2007	388	4
Rocabert, Joan; Luna, Alvaro; Blaabjerg, Frede; Rodriguez, Pedro Control of Power Converters in AC Microgrids	IEEE TRANSACTIONS ON POWER ELECTRONICS Volume: 27 Issue: 11 Pages: 4734-4749 Published: NOV 2012	370	5
Akyildiz, Ian F.; Brunetti, Fernando; Blazquez, Cristina Nanonetworks: A new communication paradigm	COMPUTER NETWORKS Volume: 52 Issue: 12 Pages: 2260-2279 Published: AUG 2008	328	6
Guerrero, Josep M.; Vasquez, Juan C.; Matas, Jose; Castilla, Miguel; Garcia de Vicuna, Luis Control Strategy for Flexible Microgrid Based on Parallel Line-Interactive UPS Systems	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS Volume: 56 Issue: 3 Pages: 726-736 Published: MAR 2009	314	7
Timbus, Adrian; Liserre, Marco; Teodorescu, Remus; Rodriguez, Pedro; Blaabjerg, Frede	IEEE TRANSACTIONS ON POWER ELECTRONICS Volume: 24 Issue: 3-4 Pages:	314	8

Evaluation of Current Controllers for Distributed Power Generation Systems	654-664 Published: MAR-APR 2009		
Guerrero, Josep M.; Matas, Jose; Garcia de Vicuna, Luis; Castilla, Miguel; Miret, Jaume Wireless-control strategy for parallel operation of distributed-generation inverters	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS Volume: 53 Issue: 5 Pages: 1461-1470 Published: OCT 2006	290	9
Munoz-Medina, Olga; Vidal, Josep; Agustin, Adrian Linear transceiver design in nonregenerative relays with channel state information	IEEE TRANSACTIONS ON SIGNAL PROCESSING Volume: 55 Issue: 6 Pages: 2593-2604 Published: JUN 2007	285	10
Guerrero, Josep M. ; Hang, Lijun; Uceda, Javier Control of distributed uninterruptible power supply systems	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS Volume: 55 Issue: 8 Pages: 2845-2859 Published: AUG 2008	264	11
Rodriguez, Pedro ; Timbus, Adrian V.; Teodorescu, Remus; Liserre, Marco; Blaabjerg, Frede Flexible active power control of distributed power generation systems during grid faults	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS Volume: 54 Issue: 5 Pages: 2583-2592 Published: OCT 2007	255	12
Rodriguez, Pedro; Luna, Alvaro; Candela, Ignacio; Mual, Ramon ; Teodorescu, Remus; Blaabjerg, Frede Multiresonant Frequency-Locked Loop for Grid Synchronization of Power Converters Under Distorted Grid Conditions	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS Volume: 58 Issue: 1 Pages: 127-138 Published: JAN 2011	234	13
Kerekes, Tamas; Teodorescu, Remus; Rodriguez, Pedro; Vazquez, Gerardo; Aldabas, Emiliano A New High-Efficiency Single-Phase Transformerless PV Inverter Topology	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS Volume: 58 Issue: 1 Pages: 184-191 Published: JAN 2011	231	14
Mei, Qiang; Shan, Mingwei; Liu, Liying; Guerrero, Josep M. A Novel Improved Variable Step-Size Incremental-Resistance MPPT Method for PV Systems	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS Volume: 58 Issue: 6 Pages: 2427-2434 Published: JUN 2011	210	15
Fischer, Andreas; Botero, Juan Felipe; Beck, Michael Till; de Meer, Hermann; Hesselbach, Xavier Virtual Network Embedding: A Survey	IEEE COMMUNICATIONS SURVEYS AND TUTORIALS Volume: 15 Issue: 4 Pages: 1888-1906 Published: FEB 2013	209	16
Cusido, Jordi; Romeral, Luis; Ortega, Juan A.; Rosero, Javier A.; Espinosa, Antonio Garcia Fault detection in induction machines using power spectral density in wavelet decomposition	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS Volume: 55 Issue: 2 Pages: 633-643 Published: FEB 2008	207	17
Lassagne, B.; Garcia-Sanchez, D.; Aguasca, A.; Bachtold, A. Ultrasensitive Mass Sensing with a Nanotube Electromechanical Resonator	NANO LETTERS Volume: 8 Issue: 11 Pages: 3735-3738 Published: NOV 2008	205	18
Yao, Wei; Chen, Min; Matas, Jose; Guerrero, Josep M. ; Qian, Zhao-Ming Design and Analysis of the Droop Control Method for Parallel Inverters Considering the Impact of the Complex Impedance on the Power Sharing	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS Volume: 58 Issue: 2 Pages: 576-588 Published: FEB 2011	204	19

Alepuz, Salvador; Busquets-Monge, Sergio; Bordonau, Josep; Gago, Javier; Gonzalez, David; Balcells, Josep Interfacing renewable energy sources to the utility grid using a three-level inverter	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS Volume: 53 Issue: 5 Pages: 1504-1511 Published: OCT 2006	199	20
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4.2 AALTO - Aalto University

Autor / article	Revista	# Citacions	Posició
Yu, Chia-Hao; Doppler, Klaus; Ribeiro, Cassio B.; Tirkkonen, Olav Resource Sharing Optimization for Device-to-Device Communication Underlying Cellular Networks	IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS Volume: 10 Issue: 8 Pages: 2752-2763 Published: AUG 2011	416	1
Olsson, R. T.; Samir, M. A. S. Azizi; Salazar-Alvarez, G.; Belova, L.; Strom, V.; Berglund, L. A.; Ikkala, O.; Nogues, J.; Gedde, U. W. Making flexible magnetic aerogels and stiff magnetic nanopaper using cellulose nanofibrils as templates	NATURE NANOTECHNOLOGY Volume: 5 Issue: 8 Pages: 584-588 Published: AUG 2010	322	2
Sun, Dong-ming; Timmermans, Marina Y.; Tian, Ying; Nasibulin, Albert G.; Kauppinen, Esko I.; Kishimoto, Shigeru; Mizutani, Takashi; Ohno, Yutaka Flexible high-performance carbon nanotube integrated circuits	NATURE NANOTECHNOLOGY Volume: 6 Issue: 3 Pages: 156-161 Published: MAR 2011	315	3
Verho, Tuukka; Bower, Chris; Andrew, Piers; Franssila, Sami; Ikkala, Olli; Ras, Robin H. A. Mechanically Durable Superhydrophobic Surfaces	ADVANCED MATERIALS Volume: 23 Issue: 5 Pages: 673-678 Published: FEB 2011	295	4
Riihonen, Taneli; Werner, Stefan; Wichman, Risto Mitigation of Loopback Self-Interference in Full-Duplex MIMO Relays	IEEE TRANSACTIONS ON SIGNAL PROCESSING Volume: 59 Issue: 12 Pages: 5983-5993 Published: DEC 2011	284	5
Wong-Ekkabut, Jirasak; Baoukina, Svetlana; Triampo, Wannapong; Tang, I-Ming; Tieleman, D. Peter; Monticelli, Luca Computer simulation study of fullerene translocation through lipid membranes	NATURE NANOTECHNOLOGY Volume: 3 Issue: 6 Pages: 363-368 Published: JUN 2008	259	6
Miche, Yoan; Sorjamaa, Antti; Bas, Patrick; Simula, Olli; Jutten, Christian; Lendasse, Amaury OP-ELM: Optimally Pruned Extreme Learning Machine	IEEE TRANSACTIONS ON NEURAL NETWORKS Volume: 21 Issue: 1 Pages: 158-162 Published: JAN 2010	258	7
Hyypä, J.; Hyypä, H.; Leckie, D.; Gougeon, F.; Yu, X.; Maltamo, M. Review of methods of small-footprint airborne laser scanning for extracting forest inventory data in boreal forests	INTERNATIONAL JOURNAL OF REMOTE SENSING Volume: 29 Issue: 5 Pages: 1339-1366 Published: MAR 2008	239	8
Sabharwal, Ashutosh; Schniter, Philip; Guo, Dongning; Bliss, Daniel W.; Rangarajan, Sampath; Wichman, Risto	IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS Volume: 32 Issue: 9 Pages:	225	9

In-Band Full-Duplex Wireless: Challenges and Opportunities	1637-1652 Published: SEP 2014		
Korhonen, Juuso T.; Kettunen, Marjo; Ras, Robin H. A.; Ikkala, Olli Hydrophobic Nanocellulose Aerogels as Floating, Sustainable, Reusable, and Recyclable Oil Absorbents	ACS APPLIED MATERIALS & INTERFACES Volume: 3 Issue: 6 Pages: 1813-1816 Published: JUN 2011	220	10

4.3 TUDelft - Delft University of Technology

Autor / article	Revista	# Citacions	Posició
Schneider, Gregory F.; Kowalczyk, Stefan W.; Calado, Victor E.; Pandraud, Gregory; Zandbergen, Henny W.; Vandersypen, Lieven M. K.; Dekker, Cees DNA Translocation through Graphene Nanopores	NANO LETTERS Volume: 10 Issue: 8 Pages: 3163-3167 Published: AUG 2010	429	1
Smeets, RMM; Keyser, UF; Krapf, D; Wu, MY; Dekker, NH; Dekker, C Salt dependence of ion transport and DNA translocation through solid-state nanopores	NANO LETTERS Volume: 6 Issue: 1 Pages: 89-95 Published: JAN 2006	406	2
Gu, Yanying; Lo, Anthony; Niemegeers, Ignas A Survey of Indoor Positioning Systems for Wireless Personal Networks	IEEE COMMUNICATIONS SURVEYS AND TUTORIALS Volume: 11 Issue: 1 Pages: 13-32 Published: MAR 2009	391	3
Polinder, Henk; van der Pijl, Frank F. A.; de Vilder, Gert-Jan; Tavner, Peter J. Comparison of direct-drive and geared generator concepts for wind turbines	IEEE TRANSACTIONS ON ENERGY CONVERSION Volume: 21 Issue: 3 Pages: 725-733 Published: SEP 2006	377	4
Buscema, Michele; Groenendijk, Dirk J.; Blanter, Sofya I.; Steele, Gary A.; van der Zant, Herre S. J.; Castellanos-Gomez, Andres Fast and Broadband Photoresponse of Few-Layer Black Phosphorus Field-Effect Transistors	NANO LETTERS Volume: 14 Issue: 6 Pages: 3347-3352 Published: JUN 2014	336	5
Axell, Erik; Leus, Geert; Larsson, Erik G.; Poor, H. Vincent State-of-the-art and recent advances Spectrum Sensing for Cognitive Radio State-of-the-art and recent advances	IEEE SIGNAL PROCESSING MAGAZINE Volume: 29 Issue: 3 Pages: 101-116 Published: MAY 2012	325	6
Hager, Martin D.; Greil, Peter; Leyens, Christoph; van der Zwaag, Sybrand; Schubert, Ulrich S. Self-Healing Materials	ADVANCED MATERIALS Volume: 22 Issue: 47 Pages: 5424-5430 Published: DEC 2010	280	7
Craciun, M. F.; Russo, S.; Yamamoto, M.; Oostinga, J. B.; Morpurgo, A. F.; Tarucha, S. Trilayer graphene is a semimetal with a gate-tunable band overlap	NATURE NANOTECHNOLOGY Volume: 4 Issue: 6 Pages: 383-388 Published: JUN 2009	259	8
Iosup, Alexandru; Ostermann, Simon; Yigitbasi, M. Nezh; Prodan, Radu; Fahringer, Thomas; Epema, Dick H. J. Performance Analysis of Cloud Computing	IEEE TRANSACTIONS ON PARALLEL AND DISTRIBUTED SYSTEMS Volume: 22 Issue: 6 Pages: 931-	254	9

Services for Many-Tasks Scientific Computing	945 Published: JUN 2011		
Castellanos-Gomez, Andres; Poot, Menno; Steele, Gary A.; van der Zant, Herre S. J.; Agrait, Nicolas; Rubio-Bollinger, Gabino Elastic Properties of Freely Suspended MoS ₂ Nanosheets	ADVANCED MATERIALS Volume: 24 Issue: 6 Pages: 772-775 Published: FEB 2012	244	10

4.4 EPFL - Ecole Polytechnique Fédéral de Lausanne

Autor / article	Revista	# Citacions	Posició
Radisavljevic, B.; Radenovic, A.; Brivio, J.; Giacometti, V.; Kis, A. Single-layer MoS ₂ transistors	NATURE NANOTECHNOLOGY Volume: 6 Issue: 3 Pages: 147-150 Published: MAR 2011	3756	1
Gomez-Navarro, Cristina; Weitz, R. Thomas; Bittner, Alexander M.; Scolari, Matteo; Mews, Alf; Burghard, Marko; Kern, Klaus Electronic transport properties of individual chemically reduced graphene oxide sheets	NANO LETTERS Volume: 7 Issue: 11 Pages: 3499-3503 Published: NOV 2007	1205	2
Achanta, Radhakrishna; Shaji, Appu; Smith, Kevin; Lucchi, Aurelien; Fua, Pascal; Suesstrunk, Sabine SLIC Superpixels Compared to State-of-the-Art Superpixel Methods	IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE Volume: 34 Issue: 11 Pages: 2274-2281 Published: NOV 2012	1183	3
Shokrollahi, Amin Raptor codes	IEEE TRANSACTIONS ON INFORMATION THEORY Volume: 52 Issue: 6 Pages: 2551-2567 Published: JUN 2006	1135	4
Lopez-Sanchez, Oriol; Lembke, Dominik; Kayci, Metin; Radenovic, Aleksandra; Kis, Andras Ultrasensitive photodetectors based on monolayer MoS ₂	NATURE NANOTECHNOLOGY Volume: 8 Issue: 7 Pages: 497-501 Published: JUL 2013	870	5
Ito, Seigo; Zakeeruddin, Shaik M.; Humphry-Baker, Robin; Liska, Paul; Charvet, Raphael; Comte, Pascal; Nazeeruddin, Mmad K.; Pechy, Peter; Takata, Masakazu; Miura, Hidetoshi; Uchida, Satoshi; Graetzel, Michael High-efficiency organic-dye-sensitized solar cells controlled by nanocrystalline-TiO ₂ electrode thickness	ADVANCED MATERIALS Volume: 18 Issue: 9 Pages: 1202-1205 Published: MAY 2006	798	6
Chen, Chia-Yuan; Wang, Mingkui; Li, Jheng-Ying; Pootrakulchote, Nuttapol; Alibabaei, Leila; Ngoc-le, Cevey-ha; Decoppet, Jean-David; Tsai, Jia-Hung; Graetzel, Carole; Wu, Chun-Guey; Zakeeruddin, Shaik M.; Graetzel, Michael Highly Efficient Light-Harvesting Ruthenium Sensitizer for Thin-Film Dye-Sensitized Solar Cells	ACS NANO Volume: 3 Issue: 10 Pages: 3103-3109 Published: OCT 2009	772	7
Fabregat-Santiago, Francisco; Bisquert, Juan; Palomares, Emilio; Otero, Luis;	JOURNAL OF PHYSICAL CHEMISTRY C	582	8

Kuang, Daibin; Zakeeruddin, Shaik M.; Gratzel, Michael Correlation between photovoltaic performance and impedance spectroscopy of dye-sensitized solar cells based on ionic liquids	Volume: 111 Issue: 17 Pages: 6550-6560 Published: MAY 2007		
Bertolazzi, Simone; Brivio, Jacopo; Kis, Andras Stretching and Breaking of Ultrathin MoS2	ACS NANO Volume: 5 Issue: 12 Pages: 9703-9709 Published: DEC 2011	505	9
Im, Jeong-Hyeok; Jang, In-Hyuk; Pellet, Norman; Graetzel, Michael; Park, Nam-Gyu Growth of CH3NH3PbI3 cuboids with controlled size for high-efficiency perovskite solar cells	NATURE NANOTECHNOLOGY Volume: 9 Issue: 11 Pages: 927-932 Published: NOV 2014	495	10

4.5 ETHZ - ETH Zürich

Autor / article	Revista	# Citacions	Posició
Bay, Herbert; Ess, Andreas; Tuytelaars, Tinne; Van Gool, Luc Speeded-Up Robust Features (SURF)	COMPUTER VISION AND IMAGE UNDERSTANDING Volume: 110 Issue: 3 Pages: 346-359 Published: JUN 2008	3760	1
Graf, D.; Molitor, F.; Ensslin, K.; Stampfer, C.; Jungen, A.; Hierold, C.; Wirtz, L. Spatially resolved raman spectroscopy of single- and few-layer graphene	NANO LETTERS Volume: 7 Issue: 2 Pages: 238-242 Published: FEB 2007	1350	2
Achanta, Radhakrishna; Shaji, Appu; Smith, Kevin; Lucchi, Aurelien; Fua, Pascal; Suesstrunk, Sabine SLIC Superpixels Compared to State-of-the-Art Superpixel Methods	IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE Volume: 34 Issue: 11 Pages: 2274-2281 Published: NOV 2012	1183	3
Rankov, Boris; Wittneben, Armin Spectral efficient protocols for half-duplex fading relay channels	IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS Volume: 25 Issue: 2 Pages: 379-389 Published: FEB 2007	983	4
Bilecka, Idalia; Niederberger, Markus Microwave chemistry for inorganic nanomaterials synthesis	NANOSCALE Volume: 2 Issue: 8 Pages: 1358-1374 Published: FEB 2010	421	5
Lichtsteiner, Patrick; Posch, Christoph; Delbruck, Tobi A 128x128 120 dB 15 μ s latency asynchronous temporal contrast vision sensor	IEEE JOURNAL OF SOLID-STATE CIRCUITS Volume: 43 Issue: 2 Pages: 566-576 Published: FEB 2008	403	6
Eldar, Yonina C.; Kuppinger, Patrick; Boelcskei, Helmut Block-Sparse Signals: Uncertainty Relations and Efficient Recovery	IEEE TRANSACTIONS ON SIGNAL PROCESSING Volume: 58 Issue: 6 Pages: 3042-3054 Published: JUN 2010	392	7
Spyropoulos, Thrasyvoulos; Psounis, Konstantinos; Raghavendra, Cauligi S. Efficient routing in intermittently connected mobile networks: The multiple-copy case	IEEE-ACM TRANSACTIONS ON NETWORKING Volume: 16 Issue: 1 Pages: 77-90 Published: FEB 2008	389	8
Indiveri, G; Chicca, E; Douglas, R A VLSI array of low-power spiking neurons and bistable synapses with spike-timing	IEEE TRANSACTIONS ON NEURAL NETWORKS Volume: 17 Issue: 1 Pages:	336	9

dependent plasticity	211-221 Published: JAN 2006		
Protesescu, Loredana; Yakunin, Sergii; Bodnarchuk, Maryna I.; Krieg, Franziska; Caputo, Riccarda; Hendon, Christopher H.; Yang, Ruo Xi; Walsh, Aron; Kovalenko, Maksym V. Nanocrystals of Cesium Lead Halide Perovskites (CsPbX ₃ , X = Cl, Br, and I): Novel Optoelectronic Materials Showing Bright Emission with Wide Color Gamut	NANO LETTERS Volume: 15 Issue: 6 Pages: 3692-3696 Published: JUN 2015	228	10

4.6 GeorgiaTech - Georgia Institute of Technology

Autor / article	Revista	# Citacions	Posició
Akyildiz, Ian F.; Lee, Won-Yeol; Vuran, Mehmet C.; Mohanty, Shantidev NeXt generation/dynamic spectrum access/cognitive radio wireless networks: A survey	COMPUTER NETWORKS Volume: 50 Issue: 13 Pages: 2127-2159 Published: SEP 2006	2480	1
Jain, Prashant K.; Huang, Wenyu; El-Sayed, Mostafa A. On the universal scaling behavior of the distance decay of plasmon coupling in metal nanoparticle pairs: A plasmon ruler equation	NANO LETTERS Volume: 7 Issue: 7 Pages: 2080-2088 Published: JUL 2007	773	2
Xu, Sheng; Qin, Yong; Xu, Chen; Wei, Yaguang; Yang, Rusen; Wang, Zhong Lin Self-powered nanowire devices	NATURE NANOTECHNOLOGY Volume: 5 Issue: 5 Pages: 366-373 Published: MAY 2010	701	3
Bloch, Matthieu; Barros, Joao; Rodrigues, Miguel R. D.; McLaughlin, Steven W. Wireless information-theoretic security	IEEE TRANSACTIONS ON INFORMATION THEORY Volume: 54 Issue: 6 Pages: 2515-2534 Published: JUN 2008	641	4
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4.14 NUS - National University of Singapore

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Autor / article	Revista	# Citacions	Posició
Guerrero, Josep M.; Hang, Lijun; Uceda, Javier Control of distributed uninterruptible power supply systems	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS Volume: 55 Issue: 8 Pages: 2845-2859 Published: AUG 2008	264	1
Luque, Antonio; Marti, Antonio The Intermediate Band Solar Cell: Progress Toward the Realization of an Attractive Concept	ADVANCED MATERIALS Volume: 22 Issue: 2 Pages: 160-174 Published: JAN 2010	150	2
Garcia, Oscar; Zumel, Pablo; De Castro, Angel; Cobos, Jose A.	IEEE TRANSACTIONS ON POWER ELECTRONICS	136	3

Automotive DC-DC bidirectional converter made with many interleaved buck stages	Volume: 21 Issue: 3 Pages: 578-586 Published: MAY 2006		
Carlborg, C. F.; Gylfason, K. B.; Kazmierczak, A.; Dortu, F.; Banuls Polo, M. J.; Maquieira Catala, A.; Kresbach, G. M.; Sohlstrom, H.; Moh, T.; Vivien, L.; Popplewell, J.; Ronan, G.; Barrios, C. A.; Stemme, G.; van der Wijngaart, W. A packaged optical slot-waveguide ring resonator sensor array for multiplex label-free assays in labs-on-chips	LAB ON A CHIP Volume: 10 Issue: 3 Pages: 281-290 Published: NOV 2009	129	4
Naranjo, Jose E.; Gonzalez, Carlos; Garcia, Ricardo; de Pedro, Teresa Lane-change fuzzy control in autonomous vehicles for the overtaking maneuver	IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS Volume: 9 Issue: 3 Pages: 438-450 Published: SEP 2008	102	5
Tirado, Jose Maria; Sanchez-Rojas, Jose Luis; Izpura, Jose Ignacio Trapping effects in the transient response of AlGaIn/GaN HEMT devices	IEEE TRANSACTIONS ON ELECTRON DEVICES Volume: 54 Issue: 3 Pages: 410-417 Published: MAR 2007	95	6
Guerrero, Josep M.; Garcia De Vicuna, Luis; Uceda, Javier Uninterruptible Power Supply Systems Provide Protection	IEEE INDUSTRIAL ELECTRONICS MAGAZINE Volume: 1 Issue: 1 Pages: 28-38 Published: SEP 2007	88	7
Encinar, Jose A.; Datashvili, Leri Sh.; Zornoza, J. Agustin; Arrebola, Manuel; Sierra-Castaner, Manuel; Besada-Sanmartin, Jose Luis; Baier, Horst; Legay, Herve Dual-polarization dual-coverage reflectarray for space applications	IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION Volume: 54 Issue: 10 Pages: 2827-2837 Published: OCT 2006	84	8
Carrasco, Eduardo; Encinar, Jose A.; Barba, Mariano Bandwidth improvement in large reflectarrays by using true-time delay	IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION Volume: 56 Issue: 8 Pages: 2496-2503 Published: AUG 2008	69	9
Ai, Bo; Cheng, Xiang; Kuerner, Thomas; Zhong, Zhang-Dui; Guan, Ke; He, Rui-Si; Xiong, Lei; Matolak, David W.; Michelson, David G.; Briso-Rodriguez, Cesar Challenges Toward Wireless Communications for High-Speed Railway	IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS Volume: 15 Issue: 5 Pages: 2143-2158 Published: OCT 2014	67	10

4.24 UPV – Universitat Politècnica de València

Autor / article	Revista	# Citacions	Posició
Capmany, J; Ortega, B; Pastor, D A tutorial on microwave photonic filters	JOURNAL OF LIGHTWAVE TECHNOLOGY Volume: 24 Issue: 1 Pages: 201-229 Published: JAN 2006	470	1
Ageron, M.; Aguilar, J. A.; Al Samarai, I.; Albert, A.; Ameli, F.; Andre, M.; Anghinolfi, M.; Anton, G.; Anvar, S.; Ardid, M.; Arnaud, K.; Aslanides, E.; Jesus, A. C. Assis; Astraatmadja, T.; Aubert, J. -J.; Auer, R.; Barbarito, E.; Baret, B.; Basa, S.; Bazzotti, M.;... [et al.] ANTARES: The first undersea neutrino	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT Volume: 656 Issue: 1 Pages: 11-38 Published: NOV 2011	166	2

telescope			
Ali, Mubarak; Ramirez, Patricio; Mafe, Salvador; Neumann, Reinhard; Ensinger, Wolfgang A pH-Tunable Nanofluidic Diode with a Broad Range of Rectifying Properties	ACS NANO Volume: 3 Issue: 3 Pages: 603-608 Published: MAR 2009	164	3
Capmany, Jose; Mora, Jose; Gasulla, Ivana; Sancho, Juan; Lloret, Juan; Sales, Salvador Microwave Photonic Signal Processing	JOURNAL OF LIGHTWAVE TECHNOLOGY Volume: 31 Issue: 4 Pages: 571-586 Published: FEB 2013	163	4
Bernardos, Andrea; Mondragon, Laura; Aznar, Elena; Marcos, M. Dolores; Martinez-Manez, Ramon; Sancenon, Felix; Soto, Juan; Barat, Jose Manuel; Perez-Paya, Enrique; Guillem, Carmen; Amoros, Pedro Enzyme-Responsive Intracellular Controlled Release Using Nanometric Silica Mesoporous Supports Capped with Saccharides	ACS NANO Volume: 4 Issue: 11 Pages: 6353-6368 Published: NOV 2010	145	5
Kildal, Per-Simon; Alfonso, E.; Valero-Nogueira, A.; Rajo-Iglesias, Eva Local Metamaterial-Based Waveguides in Gaps Between Parallel Metal Plates	IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS Volume: 8 Issue: - Pages: 84-87 Published: DEC 2008	135	6
Antonino-Daviu, Jose A.; Riera-Guasp, Martin; Folch, Jose Roger; Palomares, M. Pilar Molina Validation of a new method for the diagnosis of rotor bar failures via wavelet transform in industrial induction machines	IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS Volume: 42 Issue: 4 Pages: 990-996 Published: JUL-AUG 2006	133	7
Bandos, Tatyana V.; Bruzzone, Lorenzo; Camps-Valls, Gustavo Classification of Hyperspectral Images With Regularized Linear Discriminant Analysis	IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING Volume: 47 Issue: 3 Pages: 862-873 Published: MAR 2009	129	8
Carlborg, C. F.; Gylfason, K. B.; Kazmierczak, A.; Dortu, F.; Banuls Polo, M. J.; Maquieira Catala, A.; Kresbach, G. M.; Sohlstrom, H.; Moh, T.; Vivien, L.; Popplewell, J.; Ronan, G.; Barrios, C. A.; Stemme, G.; van der Wijngaart, W. A packaged optical slot-waveguide ring resonator sensor array for multiplex label-free assays in labs-on-chips	LAB ON A CHIP Volume: 10 Issue: 3 Pages: 281-290 Published: NOV 2009	129	9
Xamena, Francesc X. Llabres i; Corma, Avelino; Garcia, Hermenegildo Applications for metal-organic frameworks (MOFs) as quantum dot semiconductors	JOURNAL OF PHYSICAL CHEMISTRY C Volume: 111 Issue: 1 Pages: 80-85 Published: JAN 2007	128	10

5. Revistes on més publiquen els investigadors [\(sumari\)](#)

Les taules següents mostren, universitat a universitat, els títols de les revistes indexades al *Web of Science* on publiquen més els investigadors de cada universitat.

Per a cada institució es donen els 25 títols de revista on més publiquen els autors, excepte per a la UPC on es detallen els 50 títols de revista on més publiquen els autors.

També es mostra la llista de les revistes que apareixen més vegades en aquestes taules i la llista unificada dels 25 títols de revista en els quals s'han publicat més articles sumant el conjunt de les universitats.

S'acaba l'apartat amb la taula i el gràfic de la distribució de les 25 revistes amb nombre més elevat d'articles publicats per universitat, en funció de la seva situació a cada quartil de les categories de JCR.

5.1 Taules de revistes amb nombre més elevat d'articles per universitat

5.1.1 UPC - Universitat Politècnica de Catalunya

Revista	# Articles	% sobre el total (2790)
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS	121	4.335
IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING	84	3.010
SENSORS	77	2.759
COMPUTER NETWORKS	62	2.221
IEEE TRANSACTIONS ON POWER ELECTRONICS	59	2.114
MATERIALS SCIENCE AND ENGINEERING A STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	55	1.971
IEEE COMMUNICATIONS MAGAZINE	45	1.612
JOURNAL OF LIGHTWAVE TECHNOLOGY	43	1.541
ELECTRIC POWER SYSTEMS RESEARCH	42	1.505
JOURNAL OF OPTICAL COMMUNICATIONS AND NETWORKING	42	1.505
IEEE TRANSACTIONS ON SIGNAL PROCESSING	41	1.469
IEEE TRANSACTIONS ON COMPUTERS	39	1.397
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS	38	1.362
IEEE JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATIONS AND REMOTE SENSING	36	1.290
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION	36	1.290
IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT	36	1.290
COMPUTER COMMUNICATIONS	35	1.254
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS	34	1.218
IEEE COMMUNICATIONS LETTERS	32	1.147
IEEE TRANSACTIONS ON POWER DELIVERY	31	1.111
JOURNAL OF PHYSICAL CHEMISTRY C	30	1.075
ELECTRONICS LETTERS	28	1.003
EXPERT SYSTEMS WITH APPLICATIONS	26	0.932

IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES	25	0.896
ACS APPLIED MATERIALS INTERFACES	24	0.860
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY	24	0.860
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS	24	0.860
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS I REGULAR PAPERS	23	0.824
EURASIP JOURNAL ON WIRELESS COMMUNICATIONS AND NETWORKING	21	0.752
IEEE PHOTONICS TECHNOLOGY LETTERS	21	0.752
SENSORS AND ACTUATORS A PHYSICAL	20	0.717
MEASUREMENT SCIENCE AND TECHNOLOGY	20	0.717
AD HOC NETWORKS	19	0.681
CONTROL ENGINEERING PRACTICE	19	0.681
SENSORS AND ACTUATORS B CHEMICAL	19	0.681
IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS	18	0.645
IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY	18	0.645
IEEE TRANSACTIONS ON ENERGY CONVERSION	18	0.645
IEEE TRANSACTIONS ON PARALLEL AND DISTRIBUTED SYSTEMS	18	0.645
JOURNAL OF THE FRANKLIN INSTITUTE ENGINEERING AND APPLIED MATHEMATICS	18	0.645
PHOTONIC NETWORK COMMUNICATIONS	17	0.609
REMOTE SENSING	17	0.609
IEEE SENSORS JOURNAL	16	0.573
INTERNATIONAL JOURNAL OF ELECTRICAL POWER ENERGY SYSTEMS	16	0.573
MULTIMEDIA TOOLS AND APPLICATIONS	16	0.573
NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH SECTION A ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT	16	0.573
IEEE TRANSACTIONS ON COMMUNICATIONS	15	0.537
IET CONTROL THEORY AND APPLICATIONS	14	0.502
MICROELECTRONICS JOURNAL	14	0.502
WIRELESS NETWORKS	14	0.502

5.1.1.1 ETSETB – Escola Tècnica Superior d'Enginyeria de Telecomunicació de Barcelona

Revista	# Articles	% sobre el total (1358)
IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING	76	5.592
COMPUTER NETWORKS	47	3.458
JOURNAL OF OPTICAL COMMUNICATIONS AND NETWORKING	36	2.649
SENSORS	36	2.649
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS	35	2.575
JOURNAL OF LIGHTWAVE TECHNOLOGY	34	2.502
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION	33	2.428
IEEE JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATIONS AND REMOTE SENSING	32	2.355
IEEE COMMUNICATIONS MAGAZINE	28	2.060
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS	28	2.060
IEEE TRANSACTIONS ON SIGNAL PROCESSING	26	1.913
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS	24	1.766
COMPUTER COMMUNICATIONS	22	1.619
IEEE COMMUNICATIONS LETTERS	22	1.619
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS	21	1.545
ELECTRONICS LETTERS	19	1.398
IEEE TRANSACTIONS ON COMPUTERS	19	1.398
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES	18	1.325
IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS	17	1.251
IEEE PHOTONICS TECHNOLOGY LETTERS	17	1.251
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS I REGULAR PAPERS	15	1.104
PHOTONIC NETWORK COMMUNICATIONS	15	1.104
REMOTE SENSING	15	1.104
EURASIP JOURNAL ON WIRELESS COMMUNICATIONS AND NETWORKING	14	1.030
SENSORS AND ACTUATORS B CHEMICAL	14	1.030

5.1.2 AALTO - Aalto University

Revista	# Articles	% sobre el total (2584)
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION	120	4.644
JOURNAL OF PHYSICAL CHEMISTRY C	85	3.289
IEEE TRANSACTIONS ON MAGNETICS	68	2.632
IEEE TRANSACTIONS ON SIGNAL PROCESSING	58	2.245

IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS	52	2.012
NANOTECHNOLOGY	46	1.780
IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING	41	1.587
IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS	41	1.587
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY	40	1548
ACS NANO	40	1.548
ACS APPLIED MATERIALS INTERFACES	37	1.432
NANO LETTERS	36	1.393
IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS	32	1.238
ADVANCED MATERIALS	32	1.238
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS	31	1.200
IEEE SIGNAL PROCESSING LETTERS	31	1.200
IEEE TRANSACTIONS ON AUDIO SPEECH AND LANGUAGE PROCESSING	27	1.045
IEEE COMMUNICATIONS LETTERS	26	1.006
PROGRESS IN ELECTROMAGNETICS RESEARCH PIER	25	0.967
MATERIALS SCIENCE AND ENGINEERING A STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	25	0.967
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES	25	0.967
JOURNAL OF MICROMECHANICS AND MICROENGINEERING	23	0.890
IEEE TRANSACTIONS ON POWER DELIVERY	23	0.890
ANALOG INTEGRATED CIRCUITS AND SIGNAL PROCESSING	23	0.890
SIGNAL PROCESSING	22	0.851

5.1.3 TUDelft - Delft University of Technology

Revista	# Articles	% sobre el total (3608)
NANO LETTERS	157	4.350
JOURNAL OF PHYSICAL CHEMISTRY C	155	4.295
JOURNAL OF GUIDANCE CONTROL AND DYNAMICS	86	2.383
IEEE JOURNAL OF SOLID STATE CIRCUITS	86	2.383
MATERIALS SCIENCE AND ENGINEERING A STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	74	2.050
JOURNAL OF GEODESY	68	1.884
MICROELECTRONICS RELIABILITY	63	1.746
IEEE TRANSACTIONS ON SIGNAL PROCESSING	58	1.607
AUTOMATICA	58	1.607
JOURNAL OF VACUUM SCIENCE TECHNOLOGY B	56	1.552
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION	56	1.552
IEEE TRANSACTIONS ON NUCLEAR SCIENCE	52	1.441
MEASUREMENT SCIENCE AND TECHNOLOGY	51	1.413
JOURNAL OF MICROMECHANICS AND MICROENGINEERING	48	1.330
NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH SECTION A ACCELERATORS SPECTROMETERS DETECTORS AND	46	1.275

ASSOCIATED EQUIPMENT		
SENSORS AND ACTUATORS A PHYSICAL	44	1.219
IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING	44	1.219
SCRIPTA MATERIALIA	41	1.136
NANOTECHNOLOGY	41	1.136
MICROPOROUS AND MESOPOROUS MATERIALS	41	1.136
ACS NANO	41	1.136
REVIEW OF SCIENTIFIC INSTRUMENTS	40	1.108
IEEE TRANSACTIONS ON ELECTRON DEVICES	40	1.108
IEEE TRANSACTIONS ON CONTROL SYSTEMS TECHNOLOGY	39	1.081
IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS	37	1.025

5.1.4 EPFL - Ecole Polytechnique Fédéral de Lausanne

Revista	# Articles	% sobre el total (4059)
NANO LETTERS	206	5.075
JOURNAL OF PHYSICAL CHEMISTRY C	191	4.706
IEEE TRANSACTIONS ON INFORMATION THEORY	169	4.164
ACS NANO	112	2.759
IEEE TRANSACTIONS ON IMAGE PROCESSING	98	2.414
MICROELECTRONIC ENGINEERING	95	2.340
LAB ON A CHIP	92	2.267
REVIEW OF SCIENTIFIC INSTRUMENTS	91	2.242
NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH SECTION A ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT	78	1.922
NANOTECHNOLOGY	77	1.897
IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY	74	1.823
IEEE TRANSACTIONS ON SIGNAL PROCESSING	71	1.749
ADVANCED MATERIALS	66	1.626
ADVANCED FUNCTIONAL MATERIALS	66	1.626
IEEE TRANSACTIONS ON ELECTRON DEVICES	65	1.601
NANOSCALE	61	1.503
SENSORS AND ACTUATORS B CHEMICAL	57	1.404
MATERIALS SCIENCE AND ENGINEERING A STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	56	1.380
SENSORS AND ACTUATORS A PHYSICAL	55	1.355
JOURNAL OF PHYSICAL CHEMISTRY LETTERS	54	1.330
JOURNAL OF MICROMECHANICS AND MICROENGINEERING	53	1.306
ACS APPLIED MATERIALS INTERFACES	49	1.207
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION	48	1.183
IEEE TRANSACTIONS ON ELECTROMAGNETIC COMPATIBILITY	47	1.158
IEEE TRANSACTIONS ON MULTIMEDIA	42	1.035

5.1.5 ETHZ - ETH Zürich

Revista	# Articles	% sobre el total (3609)
JOURNAL OF PHYSICAL CHEMISTRY C	153	4.238
NANO LETTERS	143	3.961
NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH SECTION B BEAM INTERACTIONS WITH MATERIALS AND ATOMS	120	3.324
NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH SECTION A ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT	115	3.186
IEEE TRANSACTIONS ON INFORMATION THEORY	109	3.019
JOURNAL OF INSTRUMENTATION	100	2.770
ADVANCED FUNCTIONAL MATERIALS	86	2.382
NANOTECHNOLOGY	82	2.271
ADVANCED MATERIALS	82	2.271
ACS NANO	77	2.133
ACS APPLIED MATERIALS INTERFACES	76	2.105
NANOSCALE	72	1.994
IEEE TRANSACTIONS ON POWER ELECTRONICS	66	1.828
LAB ON A CHIP	64	1.773
REVIEW OF SCIENTIFIC INSTRUMENTS	60	1.662
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS	60	1.662
IEEE TRANSACTIONS ON AUTOMATIC CONTROL	49	1.357
AUTOMATICA	45	1.247
IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING	42	1.163
JOURNAL OF PHYSICAL CHEMISTRY LETTERS	41	1.136
SMALL	40	1.108
SENSORS AND ACTUATORS A PHYSICAL	40	1.108
IEEE ELECTRON DEVICE LETTERS	39	1.080
SENSORS AND ACTUATORS B CHEMICAL	38	1.053
JOURNAL OF NANOPARTICLE RESEARCH	34	0.942

5.1.6 GeorgiaTech - Georgia Institute of Technology

Revista	# Articles	% sobre el total (6061)
JOURNAL OF PHYSICAL CHEMISTRY C	267	4.404
ACS NANO	246	4.058
ADVANCED MATERIALS	214	3.530
NANO LETTERS	200	3.299
ACS APPLIED MATERIALS INTERFACES	168	2.771
ADVANCED FUNCTIONAL MATERIALS	132	2.177

IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS	119	1.963
IEEE TRANSACTIONS ON COMPONENTS PACKAGING AND MANUFACTURING TECHNOLOGY	118	1.947
NANO ENERGY	100	1.650
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES	97	1.600
IEEE PHOTONICS TECHNOLOGY LETTERS	87	1.435
IEEE TRANSACTIONS ON ELECTRON DEVICES	84	1.386
NANOTECHNOLOGY	83	1.369
JOURNAL OF GUIDANCE CONTROL AND DYNAMICS	81	1.336
IEEE TRANSACTIONS ON NUCLEAR SCIENCE	81	1.336
JOURNAL OF LIGHTWAVE TECHNOLOGY	68	1.122
JOURNAL OF MICROELECTROMECHANICAL SYSTEMS	67	1.105
JOURNAL OF PHYSICAL CHEMISTRY LETTERS	65	1.072
IEEE TRANSACTIONS ON SIGNAL PROCESSING	64	1.056
JOURNAL OF ELECTRONIC PACKAGING	63	1.039
IEEE TRANSACTIONS ON COMMUNICATIONS	62	1.023
IEEE TRANSACTIONS ON VERY LARGE SCALE INTEGRATION VLSI SYSTEMS	61	1.006
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION	59	0.973
JOURNAL OF ELECTRONIC MATERIALS	58	0.957
IEEE MICROWAVE AND WIRELESS COMPONENTS LETTERS	56	0.924

5.1.7 ICL - Imperial College London

Revista	# Articles	% sobre el total (3180)
JOURNAL OF INSTRUMENTATION	130	4.088
JOURNAL OF PHYSICAL CHEMISTRY C	110	3.459
ADVANCED MATERIALS	107	3.365
ADVANCED FUNCTIONAL MATERIALS	103	3.239
NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH SECTION A ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT	82	2.579
ACS NANO	80	2.516
NANO LETTERS	70	2.201
IEEE TRANSACTIONS ON SIGNAL PROCESSING	67	2.107
IEEE TRANSACTIONS ON AUTOMATIC CONTROL	65	2.044
AUTOMATICA	62	1.950
NANOSCALE	53	1.667
ELECTRONICS LETTERS	53	1.667
ACS APPLIED MATERIALS INTERFACES	51	1.604
IEEE TRANSACTIONS ON POWER ELECTRONICS	50	1.572
IEEE TRANSACTIONS ON POWER SYSTEMS	49	1.541
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS	48	1.509
REVIEW OF SCIENTIFIC INSTRUMENTS	46	1.447

MATERIALS SCIENCE AND ENGINEERING A STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	40	1.258
JOURNAL OF PHYSICAL CHEMISTRY LETTERS	40	1.258
NANOTECHNOLOGY	35	1.101
IEEE TRANSACTIONS ON MEDICAL IMAGING	35	1.101
LAB ON A CHIP	34	1.069
IEEE TRANSACTIONS ON ULTRASONICS FERROELECTRICS AND FREQUENCY CONTROL	32	1.006
IEEE SENSORS JOURNAL	31	0.975
SENSORS AND ACTUATORS B CHEMICAL	28	0.881

5.1.8 KAIST - Korea Advanced Institute of Science Technology

Revista	# Articles	% sobre el total (6286)
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	186	2.959
JOURNAL OF PHYSICAL CHEMISTRY C	183	2.911
IEEE COMMUNICATIONS LETTERS	180	2.864
ACS APPLIED MATERIALS INTERFACES	171	2.720
ADVANCED MATERIALS	170	2.704
ACS NANO	154	2.450
ELECTRONICS LETTERS	134	2.132
NANO LETTERS	133	2.116
NANOTECHNOLOGY	123	1.957
IEEE TRANSACTIONS ON COMMUNICATIONS	115	1.829
SMALL	109	1.734
ADVANCED FUNCTIONAL MATERIALS	108	1.718
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY	107	1.702
IEEE JOURNAL OF SOLID STATE CIRCUITS	106	1.686
NANOSCALE	105	1.670
IEEE PHOTONICS TECHNOLOGY LETTERS	96	1.527
IEEE MICROWAVE AND WIRELESS COMPONENTS LETTERS	96	1.527
IEEE TRANSACTIONS ON POWER ELECTRONICS	93	1.479
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS	91	1.448
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS	86	1.368
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS	86	1.368
LAB ON A CHIP	85	1.352
IEEE ELECTRON DEVICE LETTERS	84	1.336
REVIEW OF SCIENTIFIC INSTRUMENTS	80	1.273
IEEE TRANSACTIONS ON ELECTRON DEVICES	74	1.177

5.1.9 KTH - Royal Institute of Technology

Revista	# Articles	% sobre el total (3166)
JOURNAL OF PHYSICAL CHEMISTRY C	195	6.153
IEEE TRANSACTIONS ON SIGNAL PROCESSING	95	2.998
AUTOMATICA	85	2.682
IEEE TRANSACTIONS ON AUTOMATIC CONTROL	84	2.651
ACS APPLIED MATERIALS INTERFACES	83	2.619
NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH SECTION A ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT	82	2.588
IEEE TRANSACTIONS ON COMMUNICATIONS	76	2.398
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS	66	2.083
IEEE PHOTONICS TECHNOLOGY LETTERS	55	1.736
IEEE TRANSACTIONS ON POWER SYSTEMS	52	1.641
IEEE TRANSACTIONS ON INFORMATION THEORY	50	1.578
IEEE TRANSACTIONS ON MAGNETICS	48	1.515
REVIEW OF SCIENTIFIC INSTRUMENTS	45	1.420
NANOTECHNOLOGY	44	1.388
NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH SECTION B BEAM INTERACTIONS WITH MATERIALS AND ATOMS	43	1.357
NANO LETTERS	40	1.262
PROGRESS IN ELECTROMAGNETICS RESEARCH PIER	39	1.231
IEEE TRANSACTIONS ON ELECTRON DEVICES	38	1.199
IEEE COMMUNICATIONS LETTERS	34	1.073
MATERIALS SCIENCE AND ENGINEERING A STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	33	1.041
JOURNAL OF LIGHTWAVE TECHNOLOGY	32	1.010
IEEE ELECTRON DEVICE LETTERS	32	1.010
IEEE COMMUNICATIONS MAGAZINE	32	1.010
JOURNAL OF MICROMECHANICS AND MICROENGINEERING	31	0.978
IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION	31	0.978

5.1.10 KULeuven - Katholieke Universiteit Leuven

Revista	# Articles	% sobre el total (3029)
MICROELECTRONIC ENGINEERING	141	4.655
IEEE TRANSACTIONS ON ELECTRON DEVICES	122	4.028
JOURNAL OF PHYSICAL CHEMISTRY C	114	3.764
IEEE ELECTRON DEVICE LETTERS	94	3.103
SOLID STATE ELECTRONICS	82	2.707
IEEE JOURNAL OF SOLID STATE CIRCUITS	62	2.047
ACS NANO	61	2.014
NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH	57	1.882

SECTION B BEAM INTERACTIONS WITH MATERIALS AND ATOMS		
IEEE TRANSACTIONS ON SIGNAL PROCESSING	57	1.882
SENSORS AND ACTUATORS A PHYSICAL	51	1.684
JOURNAL OF VACUUM SCIENCE TECHNOLOGY B	50	1.651
ELECTRONICS LETTERS	48	1.585
SIGNAL PROCESSING	44	1.453
NANOTECHNOLOGY	44	1.453
MICROELECTRONICS RELIABILITY	43	1.420
ACS APPLIED MATERIALS INTERFACES	40	1.321
JOURNAL OF MICROMECHANICS AND MICROENGINEERING	39	1.288
IEEE TRANSACTIONS ON MAGNETICS	39	1.288
MICROPOROUS AND MESOPOROUS MATERIALS	38	1.255
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION	38	1.255
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES	37	1.222
MATERIALS SCIENCE AND ENGINEERING A STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	36	1.189
NANOSCALE	35	1.155
IEEE TRANSACTIONS ON MEDICAL IMAGING	33	1.089
NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH SECTION A ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT	31	1.023

5.1.11 MIT - Massachusetts Institute of Technology

Revista	# Articles	% sobre el total (6199)
NANO LETTERS	416	6.711
ACS NANO	262	4.226
ADVANCED MATERIALS	238	3.839
IEEE TRANSACTIONS ON INFORMATION THEORY	222	3.581
LAB ON A CHIP	202	3.259
REVIEW OF SCIENTIFIC INSTRUMENTS	198	3.194
JOURNAL OF PHYSICAL CHEMISTRY C	168	2.710
IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY	157	2.533
ADVANCED FUNCTIONAL MATERIALS	129	2.081
NANOTECHNOLOGY	126	2.033
IEEE TRANSACTIONS ON AUTOMATIC CONTROL	117	1.887
NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH SECTION A ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT	103	1.662
IEEE JOURNAL OF SOLID STATE CIRCUITS	103	1.662
JOURNAL OF INSTRUMENTATION	102	1.645
ACS APPLIED MATERIALS INTERFACES	95	1.533
IEEE TRANSACTIONS ON ELECTRON DEVICES	94	1.516
JOURNAL OF PHYSICAL CHEMISTRY LETTERS	93	1.500
IEEE TRANSACTIONS ON SIGNAL PROCESSING	92	1.484

JOURNAL OF VACUUM SCIENCE TECHNOLOGY B	88	1.420
SMALL	87	1.403
NANOSCALE	80	1.291
JOURNAL OF MICROELECTROMECHANICAL SYSTEMS	70	1.129
IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS	70	1.129
IEEE ELECTRON DEVICE LETTERS	69	1.113
PROCEEDINGS OF THE IEEE	55	0.887

5.1.12 NTU Nanyang - Nanyang Technological University

Revista	# Articles	% sobre el total (9327)
NANOSCALE	319	3.419
JOURNAL OF PHYSICAL CHEMISTRY C	299	3.205
SMALL	255	2.733
ACS APPLIED MATERIALS INTERFACES	242	2.594
ACS NANO	208	2.230
NANOTECHNOLOGY	191	2.047
ADVANCED MATERIALS	190	2.037
IEEE TRANSACTIONS ON IMAGE PROCESSING	145	1.554
IEEE PHOTONICS TECHNOLOGY LETTERS	142	1.522
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS	124	1.329
ADVANCED FUNCTIONAL MATERIALS	122	1.308
IEEE ELECTRON DEVICE LETTERS	113	1.211
IEEE TRANSACTIONS ON SIGNAL PROCESSING	109	1.168
NANO LETTERS	108	1.158
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION	107	1.147
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS I REGULAR PAPERS	105	1.126
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	103	1.104
JOURNAL OF MICROMECHANICS AND MICROENGINEERING	102	1.093
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY	102	1.093
IEEE TRANSACTIONS ON ELECTRON DEVICES	102	1.093
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS	101	1.083
IEEE TRANSACTIONS ON INFORMATION THEORY	94	1.008
AUTOMATICA	93	0.997
SENSORS AND ACTUATORS B CHEMICAL	92	0.986
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS	92	0.986

5.1.13 NTU Taiwan - National Taiwan University

Revista	# Articles	% sobre el total (5478)
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES	193	3.521
JOURNAL OF PHYSICAL CHEMISTRY C	178	3.248
NANOTECHNOLOGY	159	2.901

ACS APPLIED MATERIALS INTERFACES	158	2.883
IEEE MICROWAVE AND WIRELESS COMPONENTS LETTERS	119	2.171
IEEE PHOTONICS TECHNOLOGY LETTERS	104	1.897
IEEE TRANSACTIONS ON MAGNETICS	100	1.824
IEEE TRANSACTIONS ON COMPUTER AIDED DESIGN OF INTEGRATED CIRCUITS AND SYSTEMS	93	1.697
SENSORS	89	1.624
NANOSCALE	83	1.514
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS	80	1.460
IEEE JOURNAL OF SOLID STATE CIRCUITS	80	1.460
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY	78	1.423
IEEE TRANSACTIONS ON ELECTRON DEVICES	74	1.350
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS II EXPRESS BRIEFS	74	1.350
JOURNAL OF LIGHTWAVE TECHNOLOGY	73	1.332
BIOSENSORS BIOELECTRONICS	72	1.314
ACS NANO	72	1.314
ADVANCED FUNCTIONAL MATERIALS	70	1.277
MICROELECTRONIC ENGINEERING	67	1.222
JOURNAL OF MICROMECHANICS AND MICROENGINEERING	67	1.222
EXPERT SYSTEMS WITH APPLICATIONS	65	1.186
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS I REGULAR PAPERS	61	1.113
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	60	1.095
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY	59	1.076

5.1.14 NUS - National University of Singapore

Revista	# Articles	% sobre el total (6222)
JOURNAL OF PHYSICAL CHEMISTRY C	299	4.803
ACS APPLIED MATERIALS INTERFACES	190	3.052
NANOSCALE	176	2.827
IEEE TRANSACTIONS ON MAGNETICS	175	2.811
NANOTECHNOLOGY	167	2.683
ACS NANO	159	2.554
ADVANCED FUNCTIONAL MATERIALS	142	2.281
IEEE ELECTRON DEVICE LETTERS	134	2.153
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION	132	2.120
ADVANCED MATERIALS	130	2.088
NANO LETTERS	118	1.896
SMALL	111	1.783
IEEE TRANSACTIONS ON INFORMATION THEORY	96	1.542
IEEE TRANSACTIONS ON ELECTRON DEVICES	93	1.494
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	89	1.430

NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH SECTION B BEAM INTERACTIONS WITH MATERIALS AND ATOMS	82	1.317
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS	81	1.301
IEEE TRANSACTIONS ON IMAGE PROCESSING	81	1.301
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS	79	1.269
IEEE TRANSACTIONS ON COMMUNICATIONS	73	1.173
IEEE PHOTONICS TECHNOLOGY LETTERS	70	1.124
AUTOMATICA	68	1.092
IEEE TRANSACTIONS ON MULTIMEDIA	67	1.076
ELECTRONICS LETTERS	67	1.076
JOURNAL OF MICROMECHANICS AND MICROENGINEERING	63	1.012

5.1.15 UPMC - Pierre Marie Curie University Paris 6

Revista	# Articles	% sobre el total (2393)
JOURNAL OF PHYSICAL CHEMISTRY C	344	14.375
NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH SECTION A ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT	111	4.639
REVIEW OF SCIENTIFIC INSTRUMENTS	109	4.555
IEEE TRANSACTIONS ON MAGNETICS	70	2.925
MICROPOROUS AND MESOPOROUS MATERIALS	66	2.758
ACS NANO	60	2.507
NANO LETTERS	59	2.466
JOURNAL OF INSTRUMENTATION	55	2.298
JOURNAL OF PHYSICAL CHEMISTRY LETTERS	47	1.964
NANOTECHNOLOGY	44	1.839
LAB ON A CHIP	43	1.797
MICROELECTRONIC ENGINEERING	42	1.755
NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH SECTION B BEAM INTERACTIONS WITH MATERIALS AND ATOMS	41	1.713
IEEE TRANSACTIONS ON ULTRASONICS FERROELECTRICS AND FREQUENCY CONTROL	41	1.713
ADVANCED FUNCTIONAL MATERIALS	40	1.672
ACS APPLIED MATERIALS INTERFACES	40	1.672
ADVANCED MATERIALS	39	1.630
NANOSCALE	33	1.379
COMPUTER NETWORKS	30	1.254
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION	25	1.045
SENSORS AND ACTUATORS B CHEMICAL	24	1.003
METROLOGIA	18	0.752
IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING	18	0.752
COMPUTER COMMUNICATIONS	18	0.752
SMALL	16	0.669

5.1.16 POLITO - Politecnico di Torino

Revista	# Articles	% sobre el total (2438)
IEEE TRANSACTIONS ON MAGNETICS	98	4.020
IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS	75	3.076
IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT	64	2.625
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION	61	2.502
IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY	48	1.969
JOURNAL OF LIGHTWAVE TECHNOLOGY	42	1.723
IEEE PHOTONICS TECHNOLOGY LETTERS	42	1.723
COMPUTER NETWORKS	39	1.600
AUTOMATICA	39	1.600
SENSORS	38	1.559
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS I REGULAR PAPERS	34	1.395
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS	32	1.313
IEEE TRANSACTIONS ON ELECTROMAGNETIC COMPATIBILITY	32	1.313
IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS	31	1.272
JOURNAL OF PHYSICAL CHEMISTRY C	29	1.189
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES	29	1.189
IEEE TRANSACTIONS ON INFORMATION THEORY	27	1.107
ACS APPLIED MATERIALS INTERFACES	27	1.107
IEEE TRANSACTIONS ON COMPUTERS	26	1.066
IEEE JOURNAL OF QUANTUM ELECTRONICS	26	1.066
ELECTRONICS LETTERS	26	1.066
NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH SECTION A ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT	25	1.025
IEEE TRANSACTIONS ON NUCLEAR SCIENCE	25	1.025
IEEE ACM TRANSACTIONS ON NETWORKING	25	1.025
IEEE TRANSACTIONS ON AUTOMATIC CONTROL	23	0.943

5.1.17 Stanford - Stanford University

Revista	# Articles	% sobre el total (4273)
NANO LETTERS	357	8.322
IEEE TRANSACTIONS ON INFORMATION THEORY	238	5.548
ACS NANO	167	3.893
NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH SECTION A ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT	166	3.869
ADVANCED MATERIALS	144	3.357
JOURNAL OF PHYSICAL CHEMISTRY C	139	3.240
IEEE TRANSACTIONS ON ELECTRON DEVICES	110	2.564
JOURNAL OF LIGHTWAVE TECHNOLOGY	108	2.517

IEEE ELECTRON DEVICE LETTERS	87	2.028
REVIEW OF SCIENTIFIC INSTRUMENTS	84	1.958
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS	81	1.888
ACS APPLIED MATERIALS INTERFACES	79	1.841
IEEE TRANSACTIONS ON MEDICAL IMAGING	72	1.678
JOURNAL OF MICROELECTROMECHANICAL SYSTEMS	71	1.655
ADVANCED FUNCTIONAL MATERIALS	62	1.445
LAB ON A CHIP	60	1.399
JOURNAL OF PHYSICAL CHEMISTRY LETTERS	56	1.305
JOURNAL OF INSTRUMENTATION	55	1.282
NATURE NANOTECHNOLOGY	53	1.235
IEEE TRANSACTIONS ON SIGNAL PROCESSING	51	1.189
JOURNAL OF VACUUM SCIENCE TECHNOLOGY B	47	1.096
IEEE TRANSACTIONS ON COMMUNICATIONS	45	1.049
IEEE JOURNAL OF SOLID STATE CIRCUITS	44	1.026
IEEE TRANSACTIONS ON NUCLEAR SCIENCE	42	0.979
NANOTECHNOLOGY	40	0.932

5.1.18 TCD - Trinity College Dublin

Revista	# Articles	% sobre el total (862)
JOURNAL OF PHYSICAL CHEMISTRY C	77	8.933
ACS NANO	61	7.077
NANOTECHNOLOGY	56	6.497
NANOSCALE	43	4.988
NANO LETTERS	40	4.640
ADVANCED MATERIALS	29	3.364
ACS APPLIED MATERIALS INTERFACES	27	3.132
IEEE TRANSACTIONS ON MAGNETICS	25	2.900
IEEE PHOTONICS TECHNOLOGY LETTERS	21	2.436
SMALL	20	2.320
ADVANCED FUNCTIONAL MATERIALS	19	2.204
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	18	2.088
ELECTRONICS LETTERS	14	1.624
INTERNATIONAL JOURNAL OF NANOMEDICINE	13	1.508
IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS	13	1.508
NANO RESEARCH	11	1.276
JOURNAL OF OPTICAL COMMUNICATIONS AND NETWORKING	10	1.160
IEEE COMMUNICATIONS MAGAZINE	10	1.160
JOURNAL OF LIGHTWAVE TECHNOLOGY	9	1.044
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS	9	1.044
JOURNAL OF VACUUM SCIENCE TECHNOLOGY B	8	0.928
JOURNAL OF SENSORS	8	0.928
JOURNAL OF NANOPARTICLE RESEARCH	8	0.928

IEEE TRANSACTIONS ON MOBILE COMPUTING	8	0.928
AIP ADVANCES	8	0.928

5.1.19 TH - Tsinghua University

Revista	# Articles	% sobre el total (10193)
JOURNAL OF PHYSICAL CHEMISTRY C	254	2.491
ACS APPLIED MATERIALS INTERFACES	199	1.952
ADVANCED MATERIALS	185	1.814
SENSORS	173	1.697
NANOSCALE	171	1.677
NANOTECHNOLOGY	165	1.618
MATERIALS SCIENCE AND ENGINEERING A STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	155	1.520
NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH SECTION A ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT	150	1.471
ELECTRONICS LETTERS	142	1.393
IEICE TRANSACTIONS ON COMMUNICATIONS	138	1.353
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY	135	1.324
NANO LETTERS	127	1.246
IEEE COMMUNICATIONS LETTERS	126	1.236
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	123	1.206
IEEE TRANSACTIONS ON POWER SYSTEMS	122	1.197
REVIEW OF SCIENTIFIC INSTRUMENTS	121	1.187
CHINESE JOURNAL OF ELECTRONICS	120	1.177
ACS NANO	118	1.157
ADVANCED FUNCTIONAL MATERIALS	117	1.148
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS	116	1.138
IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION	113	1.108
IEEE TRANSACTIONS ON POWER DELIVERY	108	1.059
IEEE TRANSACTIONS ON MAGNETICS	107	1.049
NANO RESEARCH	106	1.040
IEEE PHOTONICS TECHNOLOGY LETTERS	106	1.040

5.1.20 TUM - Technische Universität Munchen

Revista	# Articles	% sobre el total (2546)
NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH SECTION A ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT	223	8.759
JOURNAL OF PHYSICAL CHEMISTRY C	141	5.538
NANO LETTERS	92	3.614

IEEE TRANSACTIONS ON MEDICAL IMAGING	63	2.474
REVIEW OF SCIENTIFIC INSTRUMENTS	62	2.435
IEEE TRANSACTIONS ON INFORMATION THEORY	54	2.121
ACS NANO	53	2.082
JOURNAL OF INSTRUMENTATION	50	1.964
JOURNAL OF GEODESY	49	1.925
IEEE TRANSACTIONS ON SIGNAL PROCESSING	44	1.728
ACS APPLIED MATERIALS INTERFACES	44	1.728
NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH SECTION B BEAM INTERACTIONS WITH MATERIALS AND ATOMS	39	1.532
NANOTECHNOLOGY	39	1.532
IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING	35	1.375
IEEE PHOTONICS TECHNOLOGY LETTERS	34	1.335
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION	32	1.257
JOURNAL OF PHYSICAL CHEMISTRY LETTERS	30	1.178
ADVANCED MATERIALS	28	1.100
IEEE TRANSACTIONS ON NANOTECHNOLOGY	27	1.060
SMALL	25	0.982
SENSORS	25	0.982
JOURNAL OF LIGHTWAVE TECHNOLOGY	25	0.982
TM TECHNISCHES MESSEN	23	0.903
NANOSCALE	23	0.903
ISPRS JOURNAL OF PHOTOGRAMMETRY AND REMOTE SENSING	23	0.903

5.1.21 UCLouvain - Université Catholique de Louvain

Revista	# Articles	% sobre el total (1132)
JOURNAL OF INSTRUMENTATION	61	5.389
JOURNAL OF PHYSICAL CHEMISTRY C	52	4.594
SOLID STATE ELECTRONICS	41	3.622
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION	40	3.534
NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH SECTION A ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT	36	3.180
IEEE TRANSACTIONS ON SIGNAL PROCESSING	34	3.004
ACS NANO	31	2.739
IEEE TRANSACTIONS ON ELECTRON DEVICES	29	2.562
NANOTECHNOLOGY	25	2.208
AUTOMATICA	24	2.120
IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING	22	1.943
IEEE TRANSACTIONS ON AUTOMATIC CONTROL	22	1.943
NANOSCALE	20	1.767
IEEE TRANSACTIONS ON NUCLEAR SCIENCE	20	1.767
SCRIPTA MATERIALIA	19	1.678

NANO LETTERS	18	1.590
IEEE TRANSACTIONS ON MAGNETICS	18	1.590
EURASIP JOURNAL ON WIRELESS COMMUNICATIONS AND NETWORKING	18	1.590
SMALL	16	1.413
SENSORS AND ACTUATORS B CHEMICAL	16	1.413
NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH SECTION B BEAM INTERACTIONS WITH MATERIALS AND ATOMS	15	1.325
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS	15	1.325
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY	14	1.237
MATERIALS SCIENCE AND ENGINEERING A STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	13	1.148
IEEE ELECTRON DEVICE LETTERS	13	1.148

5.1.22 Berkeley - University of California Berkeley

Revista	# Articles	% sobre el total (5343)
NANO LETTERS	537	10.051
NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH SECTION A ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT	381	7.131
JOURNAL OF PHYSICAL CHEMISTRY C	365	6.831
REVIEW OF SCIENTIFIC INSTRUMENTS	185	3.462
ACS NANO	185	3.462
IEEE TRANSACTIONS ON INFORMATION THEORY	173	3.238
IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY	170	3.182
ADVANCED MATERIALS	146	2.733
JOURNAL OF INSTRUMENTATION	121	2.265
JOURNAL OF PHYSICAL CHEMISTRY LETTERS	103	1.928
IEEE TRANSACTIONS ON NUCLEAR SCIENCE	102	1.909
JOURNAL OF VACUUM SCIENCE TECHNOLOGY B	94	1.759
ACS APPLIED MATERIALS INTERFACES	94	1.759
IEEE TRANSACTIONS ON ELECTRON DEVICES	93	1.741
IEEE JOURNAL OF SOLID STATE CIRCUITS	87	1.628
LAB ON A CHIP	74	1.385
JOURNAL OF MICROELECTROMECHANICAL SYSTEMS	63	1.179
IEEE TRANSACTIONS ON AUTOMATIC CONTROL	62	1.160
NANOTECHNOLOGY	61	1.142
ADVANCED FUNCTIONAL MATERIALS	61	1.142
IEEE ELECTRON DEVICE LETTERS	58	1.086
IEEE TRANSACTIONS ON MAGNETICS	57	1.067
NATURE NANOTECHNOLOGY	56	1.048
NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH SECTION B BEAM INTERACTIONS WITH MATERIALS AND ATOMS	55	1.029

NANOSCALE	55	1.029
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5.1.23 UPM - Universidad Politécnica de Madrid

Revista	# Articles	% sobre el total (1804)
SENSORS	135	7.483
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION	73	4.047
EXPERT SYSTEMS WITH APPLICATIONS	53	2.938
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS	35	1.940
IEEE TRANSACTIONS ON POWER ELECTRONICS	35	1.940
IEEE TRANSACTIONS ON CONSUMER ELECTRONICS	33	1.829
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES	31	1.718
ELECTRONICS LETTERS	27	1.497
IEEE LATIN AMERICA TRANSACTIONS	26	1.441
IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS	26	1.441
IEEE TRANSACTIONS ON NUCLEAR SCIENCE	25	1.386
SEMICONDUCTOR SCIENCE AND TECHNOLOGY	23	1.275
PROGRESS IN ELECTROMAGNETICS RESEARCH PIER	23	1.275
NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH SECTION B BEAM INTERACTIONS WITH MATERIALS AND ATOMS	22	1.220
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS	21	1.164
NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH SECTION A ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT	20	1.109
EURASIP JOURNAL ON ADVANCES IN SIGNAL PROCESSING	20	1.109
MEASUREMENT	19	1.053
IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS	19	1.053
IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS	19	1.053
MATERIALS SCIENCE AND ENGINEERING A STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	18	0.998
JOURNAL OF GUIDANCE CONTROL AND DYNAMICS	18	0.998
INTERNATIONAL JOURNAL OF DISTRIBUTED SENSOR NETWORKS	18	0.998
SENSORS AND ACTUATORS B CHEMICAL	17	0.942
IEEE TRANSACTIONS ON POWER DELIVERY	16	0.887

5.1.24 UPV – Universitat Politècnica de València

Revista	# Articles	% sobre el total (1850)
SENSORS	85	4.595
IEEE PHOTONICS TECHNOLOGY LETTERS	80	4.324
JOURNAL OF PHYSICAL CHEMISTRY C	74	4.000
NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH SECTION A ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT	49	2.649

JOURNAL OF LIGHTWAVE TECHNOLOGY	47	2.541
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES	43	2.324
EXPERT SYSTEMS WITH APPLICATIONS	43	2.324
ELECTRONICS LETTERS	34	1.838
IEEE LATIN AMERICA TRANSACTIONS	32	1.730
MICROPOROUS AND MESOPOROUS MATERIALS	30	1.622
MEASUREMENT SCIENCE AND TECHNOLOGY	30	1.622
IEEE TRANSACTIONS ON BROADCASTING	30	1.622
JOURNAL OF SUPERCOMPUTING	29	1.568
JOURNAL OF INSTRUMENTATION	29	1.568
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS	28	1.514
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE	28	1.514
IEEE PHOTONICS JOURNAL	25	1.351
IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS	24	1.297
SENSORS AND ACTUATORS B CHEMICAL	23	1.243
IEEE TRANSACTIONS ON PARALLEL AND DISTRIBUTED SYSTEMS	23	1.243
CHEMOMETRICS AND INTELLIGENT LABORATORY SYSTEMS	22	1.189
IEEE TRANSACTIONS ON NUCLEAR SCIENCE	21	1.135
IEEE TRANSACTIONS ON COMPUTERS	20	1.081
IEEE COMMUNICATIONS LETTERS	20	1.081
COMPUTER COMMUNICATIONS	19	1.027

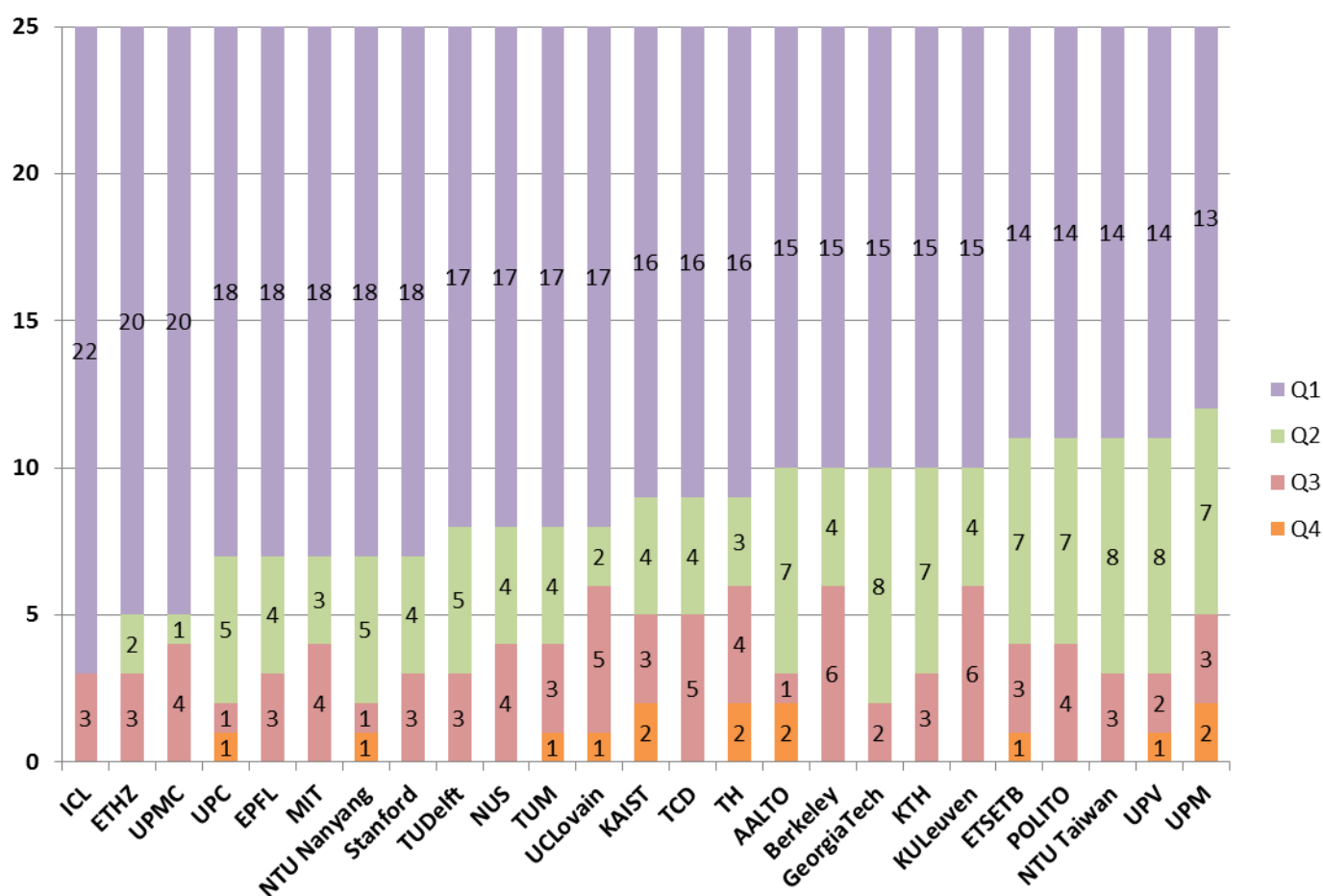
5.2 Taula de coincidències de les revistes amb presència més gran a les llistes de publicacions amb més articles

Revista	# Aparicions en universitats distintes
JOURNAL OF PHYSICAL CHEMISTRY C	23
NANOTECHNOLOGY	20
ACS APPLIED MATERIALS INTERFACES	19
ACS NANO	19
NANO LETTERS	18
NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH SECTION A ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT	16
ADVANCED MATERIALS	15
NANOSCALE	14
ADVANCED FUNCTIONAL MATERIALS	14
IEEE TRANSACTIONS ON SIGNAL PROCESSING	14
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION	13
IEEE TRANSACTIONS ON ELECTRON DEVICES	13
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS	13
REVIEW OF SCIENTIFIC INSTRUMENTS	12
IEEE PHOTONICS TECHNOLOGY LETTERS	11
ELECTRONICS LETTERS	11
IEEE TRANSACTIONS ON MAGNETICS	11
IEEE ELECTRON DEVICE LETTERS	10
IEEE TRANSACTIONS ON INFORMATION THEORY	10
JOURNAL OF LIGHTWAVE TECHNOLOGY	10
MATERIALS SCIENCE AND ENGINEERING A STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	10
AUTOMATICA	9
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS	9
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES	9
JOURNAL OF INSTRUMENTATION	9
JOURNAL OF PHYSICAL CHEMISTRY LETTERS	9
NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH SECTION B BEAM INTERACTIONS WITH MATERIALS AND ATOMS	9
SENSORS AND ACTUATORS B CHEMICAL	9
SMALL	9

5.3 Taula unificada de revistes amb presència més gran a les llistes de publicacions amb més articles

Revista	# Articles	Factor d'impacte
JOURNAL OF PHYSICAL CHEMISTRY C	3817	4.536
NANO LETTERS	2821	12.712
ACS NANO	2147	13.942
ACS APPLIED MATERIALS INTERFACES	1833	7.504
ADVANCED MATERIALS	1768	19.791
NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH SECTION A ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT	1698	1.362
NANOTECHNOLOGY	1602	3.440
NANOSCALE	1329	7.367
ADVANCED FUNCTIONAL MATERIALS	1257	12.124
IEEE TRANSACTIONS ON INFORMATION THEORY	1232	2.679
REVIEW OF SCIENTIFIC INSTRUMENTS	1121	1.515
IEEE TRANSACTIONS ON ELECTRON DEVICES	1018	2.605
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS	847	4.951
IEEE PHOTONICS TECHNOLOGY LETTERS	837	2.375
IEEE TRANSACTIONS ON SIGNAL PROCESSING	783	4.300
IEEE TRANSACTIONS ON MAGNETICS	737	1.247
IEEE ELECTRON DEVICE LETTERS	723	3.048
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION	707	2.957
JOURNAL OF INSTRUMENTATION	703	1.220
SMALL	679	8.643
LAB ON A CHIP	654	6.045
SENSORS	622	2.677
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	579	1.483
ELECTRONICS LETTERS	573	1.155
IEEE JOURNAL OF SOLID STATE CIRCUITS	568	4.181

5.4 Gràfic i taula de la situació als quartils del JCR de les 25 revistes amb més articles publicats per cada institució⁴



	Institucions	# Q4	# Q3	# Q2	#Q1
1	ICL	0	3 (12%)	0	22 (88%)
2	ETHZ	0	3 (12%)	2 (8%)	20 (80%)
3	UPMC	0	4 (16%)	1 (4%)	20 (80%)
4	UPC	1 (4%)	1 (4%)	5 (20%)	18 (72%)
5	EPFL	0	3 (12%)	4 (16%)	18 (72%)
6	MIT	0	4 (16%)	3 (12%)	18 (72%)
7	NTU Nanyang	1 (4%)	1 (4%)	5 (20%)	18 (72%)
8	Stanford	0	3 (12%)	4 (16%)	18 (72%)
9	TU Delft	0	3 (12%)	5 (20%)	17 (68%)
10	NUS	0	4 (16%)	4 (16%)	17 (68%)
11	TUM	1 (4%)	3 (12%)	4 (16%)	17 (68%)
12	UCLouvain	1 (4%)	5 (20%)	2 (8%)	17 (68%)
13	KAIST	2	3 (12%)	4 (16%)	16 (64%)
14	TCD	0	5 (20%)	4 (16%)	16 (64%)
15	TH	2 (8%)	4 (16%)	3 (12%)	16 (64%)

⁴ Quan una revista pertany a més d'una categoria temàtica del JCR, i està situada en diferents quartils, es considera únicament el quartil més alt.

16	AALTO	2 (8%)	1 (4%)	7 (28%)	15 (60%)
17	Berkeley	0	6 (24%)	4 (16%)	15 (60%)
18	GeorgiaTech	0	2 (8%)	8 (32%)	15 (60%)
19	KTH	0	3 (12%)	7 (28%)	15 (60%)
20	KULeuven	0	6 (24%)	4 (16%)	15 (60%)
21	ETSETB	1 (4%)	3 (12%)	7 (28%)	14 (56%)
22	POLITO	0	4 (16%)	7 (28%)	14 (56%)
23	NTU Taiwan	0	3 (12%)	8 (32%)	14 (56%)
24	UPV	1 (4%)	2 (8%)	8 (32%)	14 (56%)
25	UPM	2 (8%)	3 (12%)	7 (28%)	13 (52%)

6. Anàlisi de la dinàmica de publicació a l'ETSETB i la UPC en revistes seleccionades ([sumari](#))

En aquest apartat s'analitza el moviment de publicació per part de professors de l'ETSETB i del conjunt de la UPC, en el període estudiat i en matèries establertes *ad hoc* per l'Escola⁵.

A cada revista seleccionada se li ha assignat una paraula clau o encapçalament de matèria genèrica –v. Annex 1- que, sense pertanyer a cap llenguatge documental controlat, respon a la terminologia habitualment usada pels professors i recercaires en telecomunicacions i electrònica de la UPC. Posteriorment, s'ha extret el nombre total d'articles publicats en cada revista i se n'ha calculat la suma matèria a matèria.

6.1. Gràfic i taula d'articles de professors ETSETB i UPC sota les matèries definides

Les dades recollides en la següent taula mostren la quantitat d'articles publicats per professors de l'ETSETB i del conjunt de la UPC, en les categories a les quals pertanyen les 124 revistes que l'ETSETB considera de més interès per a les seves activitats dins la base de dades ISI Web of Science.

Per a la lectura de les dades caldria tenir en compte que el nombre d'investigadors assignats als diferents grups de recerca determinen molt la quantitat d'articles publicats a les respectives àrees temàtiques.

Així mateix, s'observa una àmplia diferència entre les publicacions de l'ETSETB i la UPC indexades sota *enginyeria de telecomunicacions -electrical engineering-* enfront de la resta de matèries. Donat que *enginyeria de telecomunicacions* és el terme que inclou la major part de la resta de categories, conté els articles publicats en les revistes més transversals, generalistes i que agrupen diverses temàtiques –en les quals els professors de l'ETSETB i del conjunt de la UPC publiquen més assíduament-. Al igual que en les cerques a WoS, s'ha triat la forma anglesa *electrical engineering*, segons acepció recollida per la Wikipedia⁶.

⁵ Vegeu l'Annex 1

⁶ Atesa la preponderància de la matèria i les derivacions d'aquest fet per a l'estudi, s'ha considerat oportú redactar la següent definició d'*enginyeria de telecomunicacions* partint de la que ofereix la versió anglesa de la wikipedia per a *electrical engineering* -la primera part de la definició és una traducció força literal de la seva equivalent anglesa a la wikipedia, mentre que la segona part és original de l'ETSETB-:

Camp de l'enginyeria que s'ocupa de l'estudi i l'aplicació de l'electricitat, l'electrònica i l'electromagnetisme. Aquest camp es convertí en un àmbit d'ocupació laboral identificable a finals del s. XIX amb la comercialització del telègraf elèctric i el proveïment d'energia elèctrica.

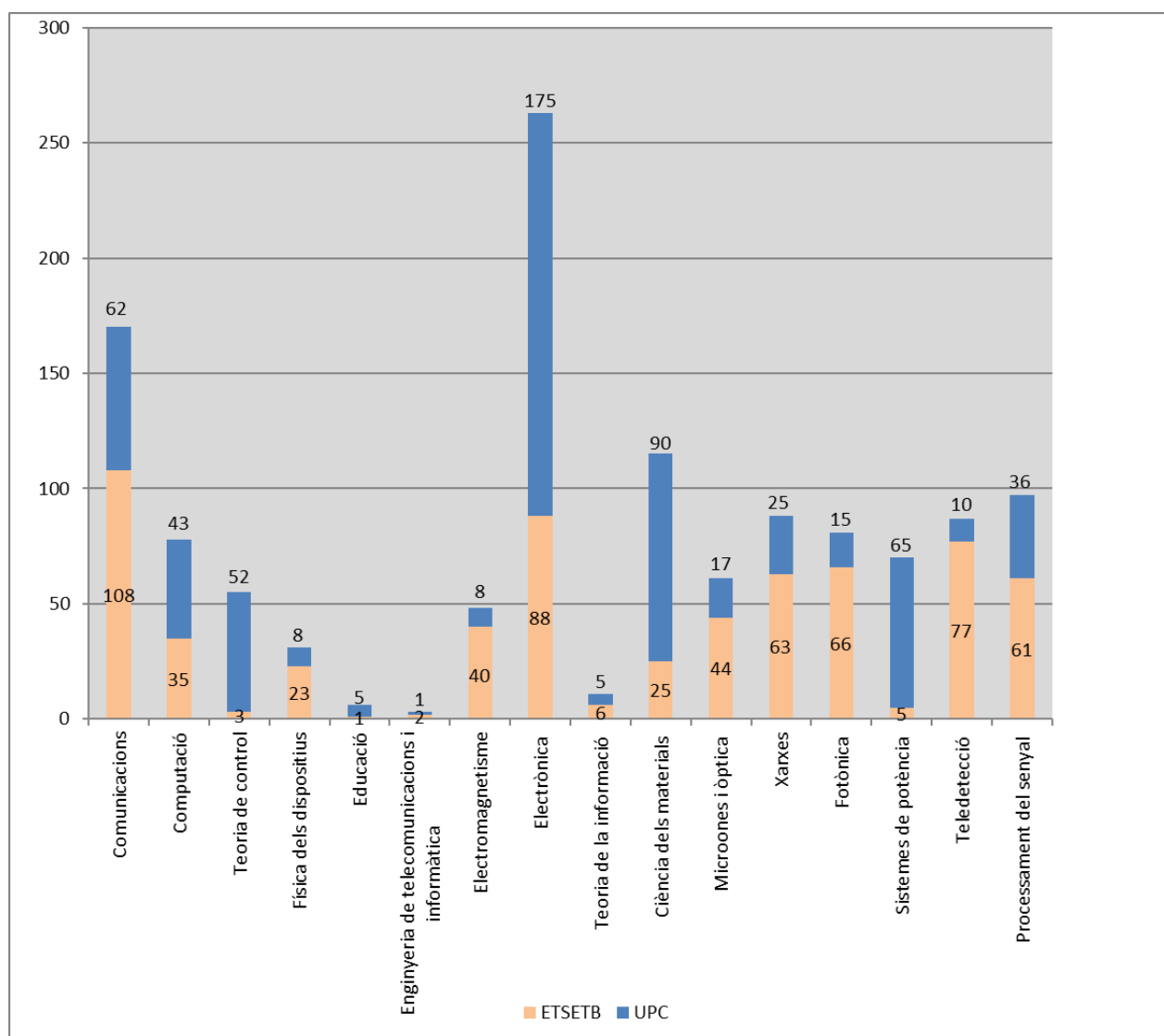
Actualment, aquest camp cobreix un ventall de categories que inclouen la potència, l'electrònica, els sistemes de control, el processament del senyal i les telecomunicacions.

A Espanya, com també a França i Itàlia, els estudis en enginyeria de telecomunicacions s'identifiquen bàsicament amb el que en els països de parla anglesa s'anomena electrical engineering. Aquests estudis inclouen l'electromagnetisme –comunicacions òptiques, radiofreqüència, microones, antenes o teledetecció-, les comunicacions –modulacions, comunicacions mòbils, radiolocalització o processament del senyal-, l'electrònica –dispositius, circuits, microelectrònica, disseny analògic i digital o instrumentació- i les xarxes –disseny de xarxes, protocols, gestió de xarxes, internet o seguretat a les xarxes-, tenint també en compte algunes matèries com ara l'aquitectura de computadors, el disseny de programari informàtic o els sistemes operatius per a ordinadors.

Concretament el 12,88% del total dels articles considerats s'han publicat en revistes d'abast temàtic transversal dins la matèria enginyeria de telecomunicacions, mentre que el 87,12% restant s'han recollit des de revistes especialitzades en àrees diverses.

Dins de la resta de categories, a l'ETSETB s'han publicat més articles en revistes especialitzades en *comunicacions* en primer lloc, i *electrònica*, en segona posició, mentre que en el conjunt de la UPC s'inverteix l'ordre de les dues matèries més recurrents –una vegada extret *enginyeria de telecomunicacions*–.

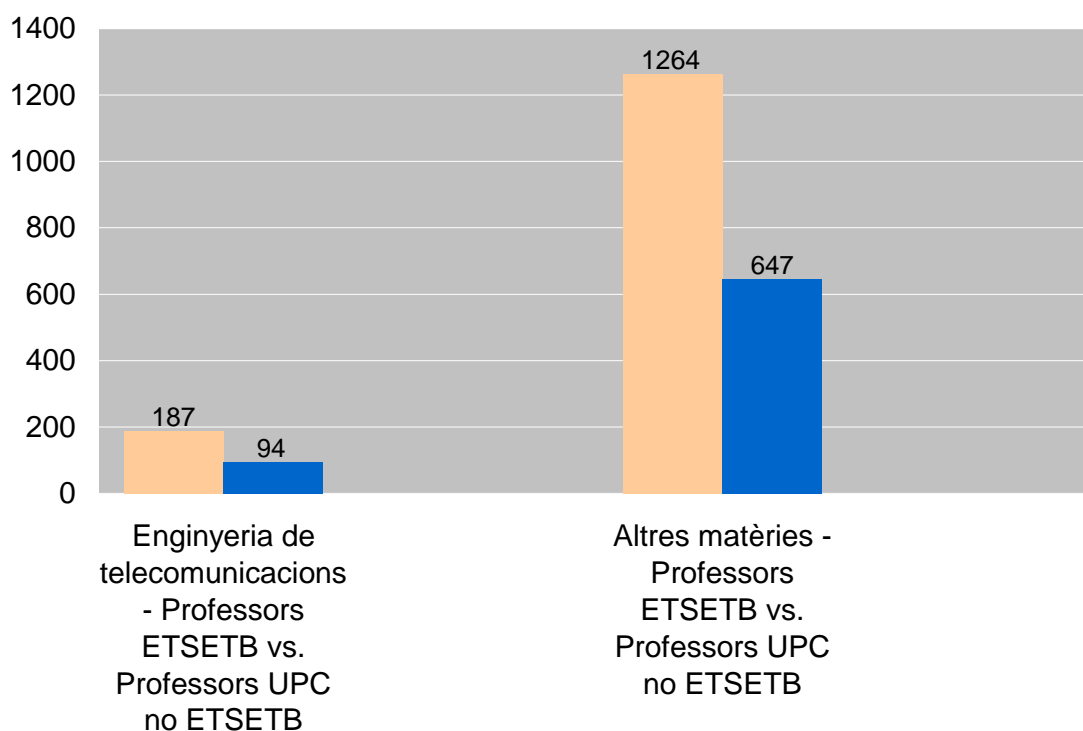
A continuació, seguint el codi de colors usat fins ara i sense incloure *enginyeria de telecomunicacions*, es pot observar, en quines de les categories establertes s'ha publicat més i en quines l'ETSETB gaudeix de més preponderància en l'entorn UPC pel que fa a la publicació en les revistes seleccionades per la pròpia Escola – *teledetecció, electromagnetisme, fotònica, física dels dispositius, microones i òptica, xarxes, enginyeria de telecomunicació i informàtica, comunicacions, processament del senyal* –, enfront d'aquelles en les quals o bé la producció es reparteix de manera força igual entre professors ETSETB i altres de la UPC – *teoria de la informació i computació* –, o bé correspon majoritàriament a professors de la UPC no assignats a l'ETSETB – *electrònica, ciència dels materials, educació, sistemes de potència i teoria de control*–.



Paraula clau assignada per l'ETSETB	# articles de ETSETB	# articles UPC –inclou ETSETB-	Diferència # articles UPC / ETSETB
<i>Comunicacions / Communications</i>	108	170	62
<i>Computació / Computer engineering</i>	35	78	43
<i>Teoria de control / Control theory</i>	3	55	52
<i>Física dels dispositius / Device physics</i>	23	31	8
<i>Educació / Education</i>	1	6	5
<i>Enginyeria de telecomunicacions / Electrical engineering</i>	94	187	93
<i>Enginyeria de telecomunicacions i informàtica / Electrical and Computer Engineering</i>	2	3	1
<i>Electromagnetisme / Electromagnetics</i>	40	48	8
<i>Electrònica / Electronics</i>	88	263	175
<i>Teoria de la informació / Information theory</i>	6	11	5
<i>Ciència dels materials / Materials science</i>	25	115	90
<i>Microones i òptica / Microwaves and optical</i>	44	61	17
<i>Xarxes / Networks</i>	63	88	25
<i>Fotònica / Photonics</i>	66	81	15
<i>Sistemes de potència / Power systems</i>	5	70	65
<i>Teledetecció / Remote sensing</i>	77	87	10
<i>Processament del senyal / Signal processing</i>	61	97	36
Total	741	1.451	710

6.2. Gràfic comparatiu d'articles d'autors ETSETB / UPC en revistes d'enginyeria de telecomunicacions vs. altres matèries

En aquest gràfic, dedicat exclusivament a revistes seleccionades i indexades sota *enginyeria de telecomunicacions*, s'observa que el 50,26% de la producció vinculada a *enginyeria de telecomunicacions* correspon a participacions de professors ETSETB (color taronja), i per a la resta de matèries aquest percentatge és del 51,18% (color blau).



7. Conclusions [\(sumari\)](#)

Publicació d'articles

- Dins de les vint-i-quatre universitats analitzades, aquelles que tenen una major producció científica en les categories estudiades són: Tsinghua University (TH), Nanyang Technological University (NTU Nanyang), Korea Advanced Institute of Science Technology (KAIST), National University of Singapore (NUS) i Massachusetts Institute of Technology (MIT)
- La UPC ocupa la posició número 16 dins d'aquest rànquing i l'ETSETB per si sola n'ocupa la posició número 23, per davant de la Université Catholique de Louvain (UCLouvain) i del Trinity College de Dublin (TCD)
- L'observació global de les corbes de publicació mostra un estancament –o fins i tot descens– de la quantitat de publicació científica a partir dels anys 2012 a 2014 en la meitat d'universitats analitzades -cal incloure en aquest grup la UPC i l'ETSETB-..
Per contra, l'altra meitat de les universitats continua presentant una tendència de publicació creixent en els darrers anys. Aquestes universitats són: TUDelft, ETH Zurich, GeorgiaTech, ICL, KTH, MIT, NTU Nanyang, UPMC, Stanford, TCD, TUM, UPM i, especialment, TH
- El personal docent i investigador vinculat a l'ETSETB participa en el 48,67% de l'autoria en la publicació a la UPC en les àrees estudiades.
- Del conjunt d'universitats politècniques de l'Estat espanyol, la Universitat Politècnica de Catalunya és la que presenta un major nombre de publicacions –un 33,69% superior a la UPV i un 34,05% superior a la UPM-.

Citacions rebudes

- En tractar-se d'una dada acumulativa, l'increment de les citacions rebudes és constant en totes les universitats estudiades durant el període 2006-2016. Això també és vàlid tant per a la UPC com per a l'ETSETB, en les quals, el creixement de citacions als seus articles presenta el mateix tipus de corba clarament ascendent que la resta d'institucions analitzades.
- Les universitats que han rebut més citacions són: Nanyang Technological University (NTU Nanyang), Massachusetts Institute of Technology (MIT), University of California Berkeley i Stanford University.
- La UPC es troba a la posició 17 de 24 dins del rànquing de citacions.
- Els articles amb participació de professors vinculats a l'ETSETB reben el 39,06% del total de citacions de la UPC durant el període analitzat i en les categories temàtiques considerades.
- La UPC és la universitat de l'Estat amb més citacions durant el període estudiat –un 51,34% superior a la UPV i un 66,47% superior a la UPM-.
- Les universitats amb una mitjana més alta de citacions per article són: Stanford University, -40,84-, University of California Berkeley -33,67-, Massachusetts Institute of Technology (MIT) -33,37-, i Trinity College de Dublin -29,78-.
- Les universitats amb un major índex H són: Massachusetts Institute of Technology (MIT) -179-, University of California Berkeley -175-, Stanford University -173-, i Nanyang Technological University (NTU Nanyang) -166-.
- La UPC, amb un índex H = 80, se situa en la banda mitjana-baixa del rànquing. L'ETSETB, per sí sola (índex H = 53), només supera la UPM en aquest aspecte.

Autors i articles

- L'article que ha rebut més citacions del conjunt de les 24 universitats està signat per un investigador de la Stanford University. El seu títol és *Compressed sensing*, publicat al 2006 a la revista *IEEE Transactions on Information Theory*. Durant el període estudiat ha rebut 9.133 citacions.
- El segon lloc del rànquing de citacions l'ocupa un article co-signat per investigadors de l'ETH de Zurich i el KU de Leuven, que ha rebut 3.760 citacions. El tercer és un article signat per investigadors de l'EPF de Lausane que ha rebut 3.756 citacions.
- Entre els 20 articles de la UPC més citats, els que compten amb algun autor vinculat a l'ETSETB representen el 30% de total.

Revistes

- Les revistes publicades per l'IEEE són en el seu conjunt les preferides majoritàriament pels investigadors de totes les universitats a l'hora de publicar articles.
- Les tres revistes on més publiquen els professors del conjunt de les universitats són: *Journal of Physical Chemistry C* -3.817 articles-, *Nano Letters* -2.821 articles- i *ACS Nano* -2147 articles-.
- Pel que fa a la UPC, *IEEE Transactions on Industrial Electronics* és la revista on més es publica -121 articles-, seguida d'*IEEE Transactions on Geoscience and Remote Sensing* -84 articles- i *Sensors* -77 articles-.
- En el cas dels professors de l'ETSETB la revista on més publiquen els seus professors també és *IEEE Transactions on Geoscience and Remote Sensing* -76 articles-, seguida de *Computer Networks* -47 articles- i *Journal of Optical Communications and Networking* i *Sensors* -ambdues amb 36 articles-.
- L'anàlisi del corpus de 124 revistes escollides per l'ETSETB mostra que:
 - L'*electrònica* ocupa la primera posició pel que fa a nombre d'articles publicats per professors de la UPC.
 - Les *comunicacions* ocupen el primer lloc pel que fa a articles publicats per professors de l'ETSETB.
 - Les revistes indexades per l'ETSETB sota *Teledetecció* -77 articles de professors ETSETB i 10 de professors UPC no ETSETB-; *Electromagnetisme* -40 articles de professors ETSETB i 8 de professors UPC no ETSETB-; *Fotònica* -66 articles de professors ETSETB i 15 de professors UPC no ETSETB-; *Física dels dispositius* -23 articles de professors ETSETB i 8 de professors UPC no ETSETB-; *Microones i òptica* -44 articles de professors ETSETB i 17 de professors UPC no ETSETB-; i *Xarxes* -63 articles de professors ETSETB i 25 de professors UPC no ETSETB- són les altres matèries on hi ha una producció més alta d'autors ETSETB respecte al conjunt UPC. *Educació* -1 ítem-, *Enginyeria de Telecomunicacions i informàtica* -2 ítems-, i *Teoria de control* -3 ítems- són les matèries sota les quals els professors de l'ETSETB han publicat menys articles en termes absoluts.
 - L'*electrònica*, l'*enginyeria de telecomunicacions*, les *comunicacions* i la *ciència dels materials* són les categories on més publiquen els professors de la UPC -incloent-hi l'ETSETB-.
 - Si considerem l'ETSETB per separat, la *ciència dels materials* no és una categoria en la qual els professors publiquin excessivament i, en canvi, apareixen la

teledetecció, la fotònica, les xarxes i el processament del senyal com a matèries fortes en aquest apartat.

Continuïtat de l'estudi

Aquest informe ofereix informació rellevant per als objectius previstos inicialment. Per aquest motiu la BRGF i l'ETSETB tenen la intenció de repetir-lo regularment com a observatori de la publicació científica directament lligada a l'ETSETB i, per extensió, a la UPC.

Igualment, és la voluntat dels autors obrir l'estudi a aportacions externes que es considerin valuoses per a la millora del document des de qualsevol punt de vista.

Annex 1 ([sumari](#))

Indexació *ad hoc* de revistes seleccionades per l'ETSETB –ordre alfabètic de títols–

TÍTOL DE LA REVISTA	PARAULA CLAU / MATÈRIA
ADVANCED MATERIALS	MATERIAL SCIENCE
ANALOG INTEGRATED CIRCUITS AND SIGNAL PROCESSING	ELECTRONICS
ANNALES DES TELECOMMUNICATIONS-ANNALS OF TELECOMMUNICATIONS	NETWORKS
APPLIED ARTIFICIAL INTELLIGENCE	COMPUTER ENGINEERING
APPLIED PHYSICS LETTERS	MATERIAL SCIENCE
AUTOMATICA	CONTROL THEORY
BT TECHNOLOGY JOURNAL	ELECTRICAL & COMPUTER ENGINEERING
CEMENT AND CONCRETE RESEARCH	ELECTRONICS
CHEMISTRY OF MATERIALS	MATERIAL SCIENCE
COMPUTATIONAL LINGUISTICS	SIGNAL PROCESSING
COMPUTER NETWORKS	NETWORKS
CONTROL ENGINEERING PRACTICE	CONTROL THEORY
EDN	ELECTRONICS
ELECTRONICS LETTERS	ELECTRICAL ENGINEERING
EURASIP JOURNAL ON APPLIED SIGNAL PROCESSING	SIGNAL PROCESSING
EUROPEAN HEART JOURNAL	ELECTRONICS
EUROPEAN JOURNAL OF HEART FAILURE	ELECTRONICS
EUROPEAN TRANSACTIONS ON ELECTRICAL POWER	POWER SYSTEMS
EUROPEAN TRANSACTIONS ON TELECOMMUNICATIONS	NETWORKS
IEE PROCEEDINGS-CONTROL THEORY AND APPLICATIONS	CONTROL THEORY

IEE PROCEEDINGS-ELECTRIC POWER APPLICATIONS	POWER SYSTEMS
IEE PROCEEDINGS-SCIENCE MEASUREMENT AND TECHNOLOGY	ELECTRICAL ENGINEERING
IEE PROCEEDINGS-VISION IMAGE AND SIGNAL PROCESSING	SIGNAL PROCESSING
IEEE AEROSPACE AND ELECTRONIC SYSTEMS MAGAZINE	ELECTRICAL ENGINEERING
IEEE CIRCUITS & DEVICES	ELECTRICAL ENGINEERING
IEEE COMMUNICATIONS LETTERS	COMMUNICATIONS
IEEE COMMUNICATIONS MAGAZINE	COMMUNICATIONS
IEEE INTELLIGENT SYSTEMS	COMPUTER ENGINEERING
IEEE JOURNAL OF QUANTUM ELECTRONICS	ELECTRONICS
IEEE JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS	ELECTRONICS
IEEE JOURNAL OF SOLID-STATE CIRCUITS	ELECTRONICS
IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS	COMMUNICATIONS
IEEE MICROWAVE AND WIRELESS COMPONENTS LETTERS	MICROWAVES AND OPTICAL
IEEE NETWORK	NETWORKS
IEEE PERVASIVE COMPUTING	ELECTRICAL & COMPUTER ENGINEERING
IEEE PHOTONICS TECHNOLOGY LETTERS	PHOTONICS
IEEE SENSORS JOURNAL	ELECTRICAL ENGINEERING
IEEE SIGNAL PROCESSING LETTERS	SIGNAL PROCESSING
IEEE TRANSACTIONS ON ADVANCED PACKAGING	DEVICE PHYSICS
IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS	ELECTRICAL ENGINEERING
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION	ELECTROMAGNETICS
IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY	MATERIAL SCIENCE
IEEE TRANSACTIONS ON AUDIO SPEECH AND LANGUAGE PROCESSING	SIGNAL PROCESSING
IEEE TRANSACTIONS ON AUTOMATIC CONTROL	CONTROL THEORY
IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING	ELECTRONICS
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY	SIGNAL PROCESSING

IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS I-FUNDAMENTAL THEORY AND APPLICATIONS	ELECTRICAL ENGINEERING
IEEE TRANSACTIONS ON COMMUNICATIONS	COMMUNICATIONS
IEEE TRANSACTIONS ON COMPUTER-AIDED DESIGN OF INTEGRATED CIRCUITS AND SYSTEMS	ELECTRONICS
IEEE TRANSACTIONS ON COMPUTERS	COMPUTER ENGINEERING
IEEE TRANSACTIONS ON EDUCATION	EDUCATION
IEEE TRANSACTIONS ON ELECTRON DEVICES	DEVICE PHYSICS
IEEE TRANSACTIONS ON ENERGY CONVERSION	POWER SYSTEMS
IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING	REMOTE SENSING
IEEE TRANSACTIONS ON IMAGE PROCESSING	SIGNAL PROCESSING
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS	ELECTRONICS
IEEE TRANSACTIONS ON INFORMATION THEORY	INFORMATION THEORY
IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT	ELECTRICAL ENGINEERING
IEEE TRANSACTIONS ON MAGNETICS	ELECTROMAGNETICS
IEEE TRANSACTIONS ON MEDICAL IMAGING	SIGNAL PROCESSING
IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES	MICROWAVES AND OPTICAL
IEEE TRANSACTIONS ON NEURAL NETWORKS	ELECTRICAL ENGINEERING
IEEE TRANSACTIONS ON NUCLEAR SCIENCE	ELECTRICAL ENGINEERING
IEEE TRANSACTIONS ON PARALLEL AND DISTRIBUTED SYSTEMS	COMPUTER ENGINEERING
IEEE TRANSACTIONS ON POWER DELIVERY	POWER SYSTEMS
IEEE TRANSACTIONS ON POWER ELECTRONICS	ELECTRONICS
IEEE TRANSACTIONS ON POWER SYSTEMS	POWER SYSTEMS
IEEE TRANSACTIONS ON RELIABILITY	ELECTRONICS
IEEE TRANSACTIONS ON SIGNAL PROCESSING	SIGNAL PROCESSING
IEEE TRANSACTIONS ON SPEECH AND AUDIO PROCESSING	SIGNAL PROCESSING
IEEE TRANSACTIONS ON ULTRASONICS FERROELECTRICS AND FREQUENCY CONTROL	MATERIAL SCIENCE
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY	COMMUNICATIONS

IEEE TRANSACTIONS ON VERY LARGE SCALE INTEGRATION (VLSI) SYSTEMS	ELECTRONICS
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS	COMMUNICATIONS
IEICE TRANSACTIONS ON FUNDAMENTALS OF ELECTRONICS COMMUNICATIONS AND COMPUTER SCIENCES	ELECTRICAL ENGINEERING
IMAGE AND VISION COMPUTING	SIGNAL PROCESSING
INTERNATIONAL JOURNAL OF NUMERICAL MODELLING-ELECTRONIC NETWORKS DEVICES AND FIELDS	ELECTRICAL ENGINEERING
INTERNATIONAL JOURNAL OF REMOTE SENSING	REMOTE SENSING
INTERNATIONAL JOURNAL OF ROBUST AND NONLINEAR CONTROL	CONTROL THEORY
JOURNAL OF BIOTECHNOLOGY	ELECTRONICS
JOURNAL OF CHEMICAL CRYSTALLOGRAPHY	MATERIAL SCIENCE
JOURNAL OF CIRCUITS SYSTEMS AND COMPUTERS	ELECTRICAL ENGINEERING
JOURNAL OF COMPUTATIONAL PHYSICS	MATERIAL SCIENCE
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS	ELECTROMAGNETICS
JOURNAL OF ELECTRONIC TESTING-THEORY AND APPLICATIONS	ELECTRICAL ENGINEERING
JOURNAL OF GUIDANCE CONTROL AND DYNAMICS	CONTROL THEORY
JOURNAL OF LIGHTWAVE TECHNOLOGY	PHOTONICS
JOURNAL OF MICROELECTROMECHANICAL SYSTEMS	DEVICE PHYSICS
JOURNAL OF NON-CRYSTALLINE SOLIDS	MATERIAL SCIENCE
JOURNAL OF RAMAN SPECTROSCOPY	MICROWAVES AND OPTICAL
JOURNAL OF SUPERCOMPUTING	COMPUTER ENGINEERING
MATERIALS LETTERS	MATERIAL SCIENCE
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	MATERIAL SCIENCE
MEASUREMENT SCIENCE & TECHNOLOGY	MATERIAL SCIENCE
MEDICAL AND BIOLOGICAL ENGINEERING AND COMPUTING	ELECTRONICS
MICROELECTRONIC ENGINEERING	ELECTRONICS
MICROELECTRONICS JOURNAL	ELECTRONICS
MICROELECTRONICS RELIABILITY	DEVICE PHYSICS

MICROPROCESSORS AND MICROSYSTEMS	ELECTRICAL ENGINEERING
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS	MICROWAVES AND OPTICAL
MICROWAVE JOURNAL	MICROWAVES AND OPTICAL
MOBILE NETWORKS & APPLICATIONS	NETWORKS
NANOTECHNOLOGY	MATERIAL SCIENCE
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS	ELECTRICAL ENGINEERING
OPTICAL AND QUANTUM ELECTRONICS	ELECTRONICS
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PATTERN RECOGNITION	SIGNAL PROCESSING
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PROCEEDINGS OF THE IEEE	ELECTRICAL ENGINEERING
RADIO SCIENCE	ELECTRICAL ENGINEERING
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SENSORS AND ACTUATORS B-CHEMICAL	ELECTRICAL ENGINEERING
SIGNAL PROCESSING	SIGNAL PROCESSING
SIGNAL PROCESSING-IMAGE COMMUNICATION	SIGNAL PROCESSING
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SOLA ENERGY MATERIALS AND SOLAR CELLS	MATERIAL SCIENCE
SOLID-STATE ELECTRONICS	DEVICE PHYSICS
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